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The information contained in this publication results from the joint efforts of the Survey's Oil and Gas Section. It brings together under one cover many oil and gas field statistical data not usually found in any other industry or government publication. Oil and gas field data of historical and general interest are included and thus preserved herein for future reference. The summary is, therefore, a source of information most useful in evaluating Michigan's past history and future prospects as an oil and gas province. Futhermore, the gathering, maintenance, and compilation of the many statistical data contained in this summary reflects, in part, the varied functions of the Oil and Gas Section.

of Current oil and gas production figures are obtained from Michigan Department o Revenue records. Gas import figures are from Michigan Public Service Commission Gas Section, compilations. Other statistics are based upon data gathered by tl Geological Survey. a and directed staff members in summarized them for manuscript d data and and summar Oil and Gas Section supervisors who contributed the gathering and maintenance of basic records a preparation are:

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Michigan Lansing, May, 1969

FIELDS, GAS OIL AND MICHIGAN'S

Introduction

In this issue of Michigan's oil and gas field statistical summary, various facets of the states petroleum exploration and development industry are cited and related, where useful, to similar statistics of the prior year. Factors such as the amount of exploratory and development drilling, the number and size of newly discovered fields and pools, and oil and gas production are useful indices which show the trend of activities from to year.

The kinds of data listed herein are derived mainly from records received and maintained by the Geological Survey Division. The types of data reported in this summary have been treated uniformly from year to year, and reflect as near as possible the actual activities, developments, and production that should be credited to the past year, 1968.

Certain figures such as the number of exploratory and development wells drilled, number of discoveries, and well classifications may differ from statistical data reported by regional or national trade journals and by commercial, petroleum industry reporting services. Differences are due to methods of gathering and reporting well drilling data. Another factor is the method of determining a cut-off date for reporting statistics on a yearly basis.

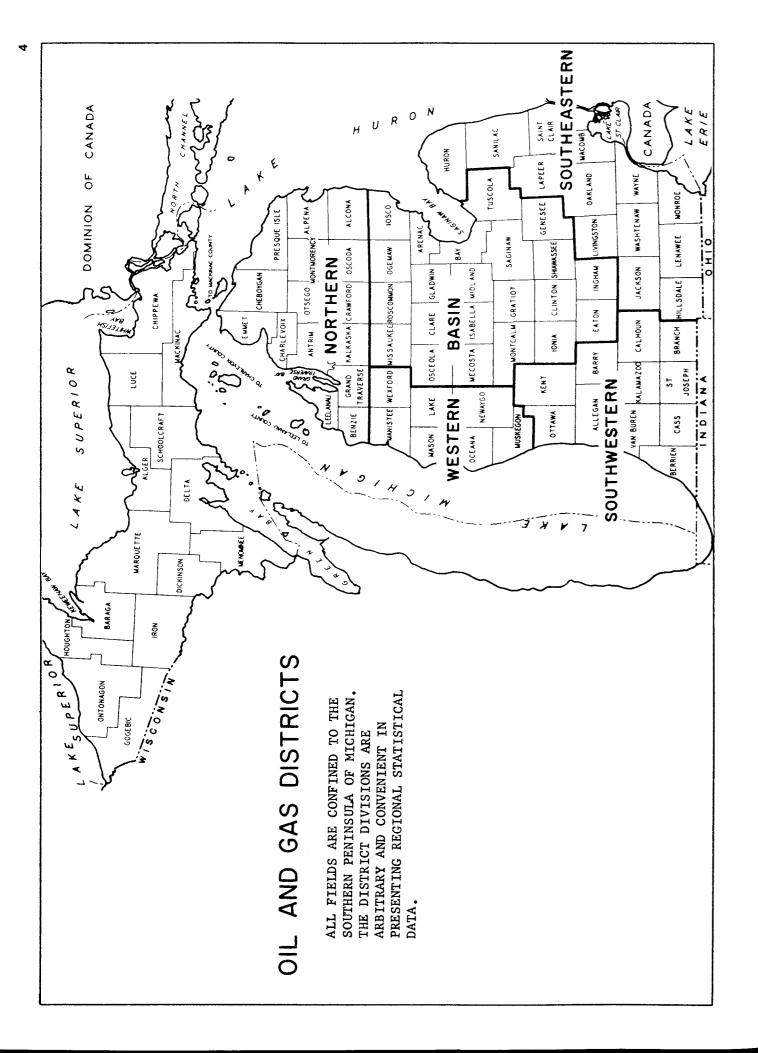
Clair Comparison of 1968 statistics with those of 1967 shows a small but continued decline in overall oil and gas activities. The most active regions of new field exploration and field development drilling were St. ClaCounty and Macomb County, the northern part of the Albion-Scipio oil field trend, and in central western

Michigan. The number of new field discoveries was slightly above that of 1967, but none appear to be of large size. Most of the new fields were outlined by development drilling at year's end. Oil production continued to decline a small percentage. More than 50% of it was produced from the Albion-Pulaski-Scipio fields. Gas production increased due to previously shut-in fields going on line, and an increase in gas processing facilities and production in the previously mentioned fields. The total value of the oil and gas produced during 1968 amounted to about \$48,571,380 as compared with \$47,820,112 in 1967.

Part 1 of this publication summarizes significant information on oil and gas field activities and related work of the Oil and Gas Section of the Geological Survey during 1968. Part 2 contains specific information on Michigan's oil and gas fields for 1968. Previous summaries contained separate tables for active or abandoned oil or gas fields. All such singular tables have been revised and consolidated into one table with all fields arranged in alphabetical order, regardless of classification or status. Part 3 contains cumulative records of importance to the petroleum industry. Data for 1968 has been included in these cumulative tables. Survey

* Drilling Permits * *

Fewer permits were issued to drill new oil or gas tests, gas storage wells, or other types than in the previous year. Part of the decrease is due to wider well spacing, the small areal extent of the fields, and a general decline in exploration activity. Of the 378 permits issued, 173 were for exploratory tests, 172 for field development wells, 27 for gas storage, and 6 for LPG storage facilities. Also, included are 4 permits which were cancelled and terminated due to failure of operators to issue date.



The geographic distribution, by district, of permits issued through a 3 year period is as follows:

DISTRIC DRILLING PERMITS BY

DISTRICT		Permits Issued	
101110	1966	1967	1968
Basin	79	91	88
Northern	_	Ξ	17
Southeastern	222	178	143
Southwestern	43	72	19
Western	75	53	69
And the state of t	The second section of the second second second second section of the second section second se		***************************************
Totals	430	405	378

The higher figures for the southeastern district reflect exploration and development activity in the St. Clair-Macomb County area, and along the Albion-Pulaski-Scipio Trend. Table 1, page 6, shows the distribution of drilling permits by county. Not included in the above figures are 25 deepening permits. No geological test permits were issued in 1968. The fluctuation in permits issued for gas storage and other types of service wells over a three year span are as follows: service

ω	27	6	36
1968	. ,		
1961	24	2	26
9		7	7
1966			
	•	L.P.G., wtr. inj. Brine Disposal, etc.	
<u>s</u>)	sal,	
Wel	rage	wtr ispo	
Service Wells	Sto	ine D	
Ser	Gas	Br	

COMPLETIONS * WELL

There were 333 new-hole exploratory and development wells completed during the year. The figure does not include gas storage reservoir wells, oil wells drilled to deeper oil or gas pools, reworks, or others not directly related to exploratory or field development drilling.

Nearly 40% of the exploratory and 25% of the development wells were drilled in St. Clair and Macomb Counties. About 32% of the development well completions are credited to the Albion-Pulaski-Scipio Trend; most of them being in the Calhoun County part. More details on well completion results, by county, are shown on Table 1. The number and class of well completions according to oil and gas districts and by month in 1968 are tabulated on Table 3. The results of exploratory and development drilling covering a three-year period are summarized as follows:

		Totals		388	393	333
EXPLORATORY AND DEVELOPMENT WELL COMPLETIONS Exploratory Development	ıt		Dry]]	106	100
	Wells	Gas	42	38	∞	
	De		0i1	49	69	19
		Dry	175	171	151	
ORY AND	Explorator	Wells	Gas	က	~	4
XPLORAT(XPLORATO Exp		011	∞	7	6
EX		Year		1966	1967	1968

fluctuation of drilled footage, including deep-over a three-year period is as follows: over a The enings,

	Amount of	Drilled Footage	a
Well Class	1966	1967	1968
Exploratory Development Service	560,941 608,386 33,370	539,400 686,672 88,434	522,384 564,827 776,026*
2017	270,600		

*Includes LPG, GS, Brine and water injection wells

1,314,506

1,202,697

9

0	TOTAL COMPLETIONS	42-	- 2	34	7	ന നന	22	2-[12	– m	17 4 1
1968 (Sheet 1 of 2) led deeper	1 51			13	7						
. COMPLETIONS BY COUNTY, 1 of New Hole Completions wells or old wells drill	RESULTS Oil Gas Dry Wells Wells Holes	426	L 2	11 1 22	L L	4 L &&&	5 17	3	11	⊢ ∞	10 7 4 1
DRILLING PERMITS AND WELL COMP Classification of Ne Does not include reworked well	ESTS elopmer	7	mana juliya serengan in 1988 at ma	88	4	ഹ	13	Q	∞	2	13
		722	- 2			ოო	6	2 - 2	4	F F	4 L
TABLE 1	OIL AND GAS PERMITS ISSUED	92-		39	3 7	φ- ππ	17	30 10	Ξ	0.00	23
	COUNTY	Allegan Antrim Arenac	Barry Bay	Calhoun Cass Clare	Crawford Eaton	Genesee Gladwin Grand Traverse Gratiot	Hillsdale	Ionia Iosco Isabella	Jackson	Kalamazoo Kalkaska Kent	Lake Lapeer Lenawee

	37 10 10 10 8	10	32225	က	,	74	4	e 9	369
								9	9
of 2)									2
eet 2	- 3		Ŋ			ო			27
1968 (Sheet 2								-	
1		œ	12 3	က	_	09	4	2	251
IS BY C	4					т			12
OMPLETION	2 - e	2	r- 4			4 8			70
S AND WELL C	10 1 2 2 7	2	C 8			32	-	_	169
DRILLING PERMITS AND WELL COMPLETIONS BY COUNTY,	26 13 13 1	∞	4 თო	က		39	ю	_	164
TABLE 1	გ ი∟ გ ი ⊢ ი ო ი	16	- 2 4 4	m	—	69	വ	٦ - 9	378
	Macomb Manistee Mason Mecosta Midland Missaukee Montcalm	Newaygo	Oakland Oceana Ogemaw Osceola Ottawa	Presque Isle	Roscommon	Shiawassee St. Clair	Van Buren	Washtenaw Wayne	Totals 46 Counties

Includes 4 permits which were issued and terminated in 1968.

Brine from this well is used for dust and ice control on county roads.

PRODUCTION GAS

No large oil reserves were found and developed dur-1968 that reversed the general decline in annual oil action. Oil production amounted to 12,974,405 baras compared with 13,664,185 barrels in 1967. No large (ing 1968 that production. Oirels as controls)

Gas production increased from 33,241,640 Mcf. to 39,685,162 Mcf. in 1968. The increase is due in part to new gas fields going on line, and an increase in gas processing and gathering facilities in the Albion-Pulaski-Scipio fields.

gas LPG production, stripped from Michigan produced gas amounted to about 1,885,735 barrels. The bulk of LPG production came from Albion-Pulaski-Scipio, Belle River Mills, Boyd, and Reed City gas plants. An additional 603,965 barrels were stripped from gas imported into Michigan via pipeline and processed at the Willow Run plant. See Tables 9 and 10 for further information on gas plant operations. Oil and gas production by individual fields or pools is found in Part 2, Table 4. Annual and cumulative production by year, geologic formation, and county can be found in Part 3. See Table 2 in this section for oil and gas production by county in 1968. The following tables show oil and gas production by month and by oil and gas districts.

		MCF Gas	1,898,546	459,274	31,246,298	6,026,557	54,487	
PRODUCTION BY DISTRICT	Production	Barrels Oil				2,607,557		
OIL AND GAS	+ · · · · · · · · · · · · · · · · · · ·	DISCLICE	Basin	Northern	Southeastern	Southwestern	Western	

39,685,162

12,974,404

Totals

		MCF Gas	3,340,012	2,525,937	3,386,377	3,069,001	3,310,233	3,104,457	3,156,949	3,084,110	3,649,268	3,956,857	3,115,270	3,986,691	
OIL AND GAS PRODUCIION BY MONTH	Production	Barrels Oil	1,132,372	1,040,183	1,103,810	1,110,123	1,110,957	1,047,591	1,117,491		1,043,988	1,125,661	Ω	1,020,167	
	4+ 2+	11011 011	January	February	March	April	May	June	July	August	September	October	November	December	

39,685,162
12,974,404
Totals

*

GAS VALUATION

OIL AND

The average price paid at the wellhead for Michigan crude was \$2.95 per barrel. The value of this mineral resource amounted to about \$38,286,742 as compared with \$39,455,290 in 1967. The average price of Michigan gas sold at the well head was \$.26 per Mcf. The value of this product amounted to about \$10,284,638 as compared with \$8,364,822 in 1967. The value of LPG production amounted to about \$3,960,043. The estimated price of LPG's, per barrel, amounted to \$2.10.

* OIL AND GAS IMPORTS AND EXPORTS

bar-Domestic imports via pipeline from western and midwestern states amounted to 25,817,614 barrels, a decrease from the 28,853,856 barrels imported in 1967. Canadian crude oil imports via pipeline from western Canada oil fields increased from 8,407,569 barrels to 14,299,426 barrels in 1968. Total imports to Michigan refineries amounted to 40,117,040 barrels compared with 37,250,765 barrels in 1967.

	1968 OIL IMPORIS (BDIS.	KIS (BDIS.)	
	Domestic	canadian	וסבשו
January	85,05	97,14	,582,1
February	,989,24	27,88	,217,12
March	95,58	88,61	,384,19
April	01,50	65,86	,167,36
	,844,	1,351,201	3,195,896
June	,219,83	64,12	,583,96
July	059,95	12,05	,272,00
August	,967,12	05,01	,372,13
tember	,185,53	95,30	,580,83
ctober	,542,61	41,36	,283,98
November	7,37	ഹ്	9,66
ecember	,169,16	08,55	,877,

Michigan produced crude oil exported to northern Indiana (Ft. Wayne) and Ohio (Cleveland) refineries amounted to 584,063 barrels. The 1967 export figures report in Statistical Summary 8 should have been 503,289 barrels rather than 149,463 barrels reported.

					er 54,583		
968 OIL EXPORTS (Bbls.)	July	August	Septem	October	November	December	
1968 OIL EXP(49,780	46,896	51,681	45,944	46,156	32,551	
	January	February	March	April	May	June	

Total 584,063

Gas imports to Michigan markets and gas storage fields via pipelines, primarily from Texas, Louisiana, Oklahoma, and Kansas fields increased slightly in 1968. Compilations by the Gas Section, Michigan Public Service Commission, show gas imports of 696,781,346 Mcf. as compared with 661,345,209 Mcf. in 1967. Gas imports by month were as follows:

PIPELINE GAS IMPORTS (Mcf.		믣	3	S	급	<u>a</u>	M	(2)	8	4		
January	•				•	•	•	•	•			42,052,490
February	•				•	•	•	•	•			38,279,57
March	٠	•			•	•	•	•	•			53,639,33
April	•				•	٠	•	•	•			63,088,81
May	•				•	•	•	•	•			67,158,538
June	•	•			•	•	•	•	•			69,656,110
July	•				•	•	•	•	•			71,065,17
August	•				•	•	•	•				71,893,00
September	•				•	•	•	•	•			64,938,58
October	•				•	•	•	٠	•			, 42
November	•					•	•	•	•			48,796,640
December	٠	٠				•	٠	•	•			64,491,66

04-0800-0704

* DISCOVERY WELLS

40,117,040

14,299,426

25,817,614

Totals

,346

696,781

as State-wide, the discovery-to-dry hole ratio for exploratory or new field wildcat wells was about 1:12 as compared with 1:20 in 1967. In St. Clair and Macomb Counties, where about 40% of the exploratory wells were drilled, the ratio was about 1:16 as compared with 1:20 in 1967. Completion details on all discovery wells credited to 1968 are listed on pages 12 and 13. All reached total depth during the year, and most were put on production. None of the new oil discoveries appears to have an oil or gas yield greater than a Class E field as defined below. The classifications are based on potential yields as defined by the American Association of Petroleum Geologists, Committee on Statistics of Drilling.

- Over 50 million barrels oil or 300 BCF gas
- 25-50 million barrels oil or 150-300 BCF gas
- 10-25 million barrels oil or 60-150 BCF gas
- 1-10 million barrels oil or 6-60 BCF gas
- 1 million barrels or less oil, or less than
6 BCF gas
- Abandoned as non-profitable gas Class A Class B Class C Class D Class E

Class

MCF Gas 301,781 19,143,167

93,011 43,447 54,487

39,685,162

TABLE 2 -- OIL AND GAS PRODUCTION BY COUNTY IN 1968

				• •							•																													
Barrels Oil	162,957	23,183	11,502	581,450	70,801	10,669	17,224	10,642	I I =		Totals: 12,974,404																													
County	Roscommon	Saginaw	Shiawassee	St. Clair	Tuscola	Van Buren	Washtenaw	Wayne	Wexford																															
MCF Gas	526,923	1 1) i	1 1	1 1	4,865,576	1 1 1	157,540	427,630	1 1	1 1	7,297	5,183,408	1 1 1	1 1	2,392	2,498,701	!!!	18,078	1 1	43,410	69,265	8,703	4,163,186	!!!	117,191	1 1 1	570,235	1 1 1	7,160	1 1	1 1	1 1	!!!	539,825	195,125	1 1 1	31,644	086,610	
Barrels Oil	185,086	252,669	11,888	308,631		2,325,320	1,055	562,166	348,960	9,048	330,573		3,511,411	1,852	59		1,401,204	71,833	75,908	56,331	70,412	298	898	10,479	70,207	275,826	205,782	499,169	3,701	148,591	71,651	23,411	626	57,932	277,797	586,695	1,568	1	1,031	
County	Allegan	Arenac	Barry	Bay	Berrien	Calhoun	Çass	Clare	Crawford	Genesee	Gladwin	Gratiot	Hillsdale	Huron	Ionia	Isabella	Jackson	Kalkaska	Kent	Lake	Lapeer	Lenawee	Livingston	Macomb	Mason	Mecosta	Midland	Missaukee	Monroe	Montcalm	Muskegon	Newaygo	Oakland	Oceana	Ogemaw	Osceola	Uscoda	Otsego	Uttawa	

Most new fields were found in established producing regions. None open large, undrilled areas for exploration. The number of wells completed in the new fields during 1968, and the cumulative production for the field can be found in the oil and gas field tables on the green pages. The location of new fields in relation to older fields is shown on the map segments, page 14.

Devonian and Silurian rocks were again an important drilling objective. About 36% of all wells were completed in Devonian rocks, and about 33% were completed in Silurian, mainly the Niagaran section. About 20% of the wells were completed in Middle Ordovician, Trenton-Black River rocks. The balance were completed in Mississippian rocks or those older than Middle Ordovician. An analysis of discoveries through a three-year period is shown in chart form. Extension discoveries and new pools are included.

ANALYSIS	OF DISCOVERY	WELLS	BY	ANALYSIS OF DISCOVERY WELLS BY GEOLOGIC SYSTEM	4
System	Formation	n or Pay	a,	Discoveries	ies
•			,	1966 1967	196
Donos V Lucian				1	'

3 2 5 6		1966	1966 1967 196	19(
Pennsvlvanian		1	1	•
Mississippian	"Michigan Stray Ss."	_	ı	•
-	"Berea"	1	_	•
Devonian	Antrim Shale	•	ì	•
	"Traverse Lime"	က	_	_
	Dundee	_	က	•
	"Reed City"	က	ı	•
	Detroit River			
	"Sour Zone"	ı	1	•
	Richfield	1	ı	•
Silurian	Salina A-1 or A-2	1	ı	٠
	Niagaran reef*	7	က	•
Ordovician	Trenton-Black River	1	_	•
	Prairie du Chien	ı	ı	•
Cambrian	(Gas shows reported)	1	ı	•

119--

* * DEEP TESTS * * *

About 7% of the 1968 exploratory wells reached total depth in Mississippian rocks, 21% in Devonian Traverse limestones, 17% in Devonian Dundee-Reed City limestones, 43% in Middle Silurian Niagaran rocks, and 12% in Middle Ordovician Trenton-Black River or deeper rocks. One Precambrian basement test was drilled during the year.

No firm criteria have been established for designating exploratory wells as important deep tests. Actual drilled depth is not the determining factor. Selections are most often based on the geologic age of the strata penetrated in reference to the location of the test within the basin, and the relative abundancy of similar tests in the area. Deeper pool tests in designated fields may also qualify as deep tests. Those selected for 1968 are listed on page 13.

A series of important deep tests were drilled in the northern part of the Southern Peninsula. Most of this region is sparsely explored and not much is known of its oil and gas possibilities. The locations of the more important tests in this region are shown on the small map, page 15. All tests were reported to have been based on gravimeter surveys. Though all were dry holes, the first one drilled was a near-discovery and is partially responsible for the extensive leasing campaign conducted in the northern part of the basin during 1968.

Pan American's No. 1 Draysey was the first well spudded in the exploratory project. Good shows of oil and gas were recovered on drill-stem tests in the Niagaran. These were by-passed and the well was drilled another drill stem test was run from 4364 to 4451 feet. Recoveries and pressures in this interval were unfavorable, and the well was finally drilled to Precambrian basement rock at a total depth of 5940 feet. Well-site geologists picked the top of the Precambrian rock at 5877. The well bottomed out in what are probably altered basalts. Inspection of well cuttings indicates that Precambrian

1-14111

^{*}Most reefs also have associated Salina A-l oil or gas pays.

1968 DISCOVERY WELLS

Field	County, Location, Permit No.	Operator and Lease	Comp.	Depth to Pay	Total Depth	Initial Pr n=(N)IP BOPD	Production P t=(T)IP MCFGPD	Prod. Form.	Basis for Loc.
NEW FIELDS									
Cat Creek	0sceola 4-17N-9W SP 26900	M.C.G.C. & Leonard Oil, Inc.	1-23	3696	3755	F50t		Dd.	Sub.
Cole Lake	Newaygo 30-16N-11W	Black River Petroleum Corp. Englund et ux #1	11-1	2928	2938	P & F60 ⁿ		Trav.	Sub
Collin	St. Clair 20-3N-16E SP 27004	C. W. Collin Fabian #1	1-30	2196	2364	F44t		Sal. A-1 Niag.	Grav.
Columbus, North	St. Clair 5-5N-15E SP 27384	McClure Oil Co. Ward #1	9-29	3266	3326	F50t		Niag.	Grav.
Columbus, Sec. 3	St. Clair 3-5N-15E SP 27465	Sun Oil Co. & Basin Oil Co.	11-27	3105	3250	F35t		Niag.	Grav.
Demings Lake	Lenawee 27-75-2E SD 2710A	Bell & Gault Drlg. Co. Brower et al #1	3-8	723	741		900n	Trav.	Sub.
Greenwood, Sec. 3	Sr 27.194 Clare 3-19N-5W SP 27390	P. G. Benedum, NADCO, Woods Oil Co.	10-20	3438	4048	p60t		Trav.	Sub.
Hartwick	0sceola 11-19N-8W	John P. Murphy Arndt & Peel et al #1	8-23	1681	1706		2600n	Mich. Stray	Sub.
Richmond	Macomb 26-5N-14E SP 27315	Sullivan & Leroux Goetz et al Unit #1	7-23	3195	3254		540 ⁿ	Niag.	Grav.
South Branch	Crawford 32-25N-1W	Sun Oil Co. Sheppard #1	11-26	4203	4436		1000t	Rich- field	Grav.
St. Mary's Lake	3F 27443 Mason 35-17N-17W	Derk Van Raalte Lundberg #1	10-16	1641	1644	F50t		Trav.	Sub.
Thompson Corners	Newaygo 30-15N-14W SP 27339	George H. Gordon Stroud #1	6-6	2138	2140	P60 ⁿ		Trav.	Sub.

	Trav.	
	r T	
	P & F15t	
	1764	
	1757 1763	
	51	
	Flory Drlg. Co. Olsen-Cislo Comm. #1	
ISCOVERY	Muskegon 18-10N-15W SP 27223	11SCOVERV
NEW POOL DISCOVERY	Wolf Lake	EXTENSION DISCOVERY

Sub.

Sub.

Reed City

P22t

3558

3556

3-19

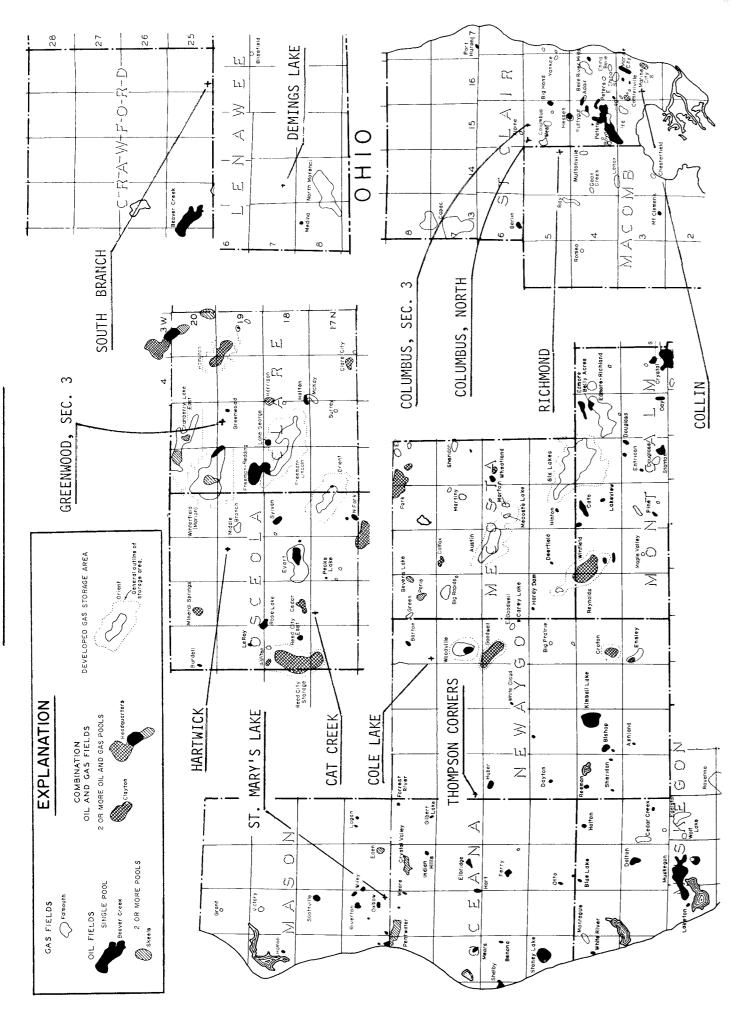
Thomas H. Mall Paris et al #1

Mecosta 36-13N-9W SP 27149

Cato

t=(T) IP refers to initial potential after acid, sand-fracture, or a combination of well stimulation methods. n=(N) IP refers to natural potential or production. NOTE:

	Remarks	01d TD 2318		SO & G					SSG	01d TD 6585	SO	SG	Soid Seil week	neal may. Disc.	98		New Lothrop	Oxbow Prosper, South	Wolf Lake
	Explo.	QQMO	MHM	N F W	N E	3 3 4 4 2 2	NFW	NFM	NFW	OMDD	M M N	M M M	Z L	M M L L N	MHN		DPT Fac	DPT TPT	DPT
	Total Depth	3040	7000	5850 6100	5459	2936 4996	6950	5760	5519	8215	3895	2767	5040	1987	4505		2607	5223	2140
	System and Formation	De	Sil., Niag.	Sil., Niag Sil., Clinton	, Clint	Ord., Mt. Simon	Sil., Clinton	Sil., Niag.	•	Camb., Mt. Simon	Ord., Cinn.	Sil., Niag.	Dvacant	Sil., Niag.	Ord., P. D. C.		Dev., D. R.		Dev., Dundee
	Permit Number	27060	27249	27454 27312	27321			27487	27155	26662	27250	27469	27199	27402	27099		27244	27105	27342
DEEP TESTS	Operator and Lease	North American Drlg. Co. #1 Cranberry	kancn Northern Mich. Explo. Co. #1 Adams Camp- sites	Northern Mich. Explo. Co. #1 Dreves C. W Northern Mich. Explo. Co. #1 Kennett	Northern Mich. Explo. Co. #1 Compton	Nanco, Inc. #1 Smith A. Swan & M.C.G.C. #1 Graham & Carlson	Northern Mich. Explo. Co. #	McClure Oil Co. #1 Griner	Miller Bros. #1 Mikula	Thunder Hollow O. & G. Co. #1 Thomps	#1 Smith L.	½ Lanphar O. & G. Corp. #	Middaugh J. Dan American Det Corn #1 Dravsey D E	oil Co. & Miller Bros. #1	Passmore Sun Oil Co. #1 Hoener L.	896	ros	Missaukee 35-22N-6W Woods Oil Co. #2 Alderman-McCoy	Flory Drig. Co. #1 Cisio F.
	Location	30-28N-5E	35-29N-6W	5-26N-10W 32-27N-10	30-26N-12	21-2S-2W	17-27N-8W I	16-24N-13W	3-20N-17W	20-15N-14	12-34N-2E		29-35N-2F	16-2S-14W	21-3S-4E	OOL TESTS 1	18-8N-5E	35-22N-6W	18-10N-15W
	County	Alcona	Antrim	Gd. Traverse Gd. Traverse	Gd. Traverse	Jackson	Kalkaska	Manistee	Mason	Newaygo	Presque Isle	Presque Isle	Dracous Isla	Van Buren 16-25-14W	Washtenaw	DRY DEEPER F	Genesee	Missaukee	Muskegon

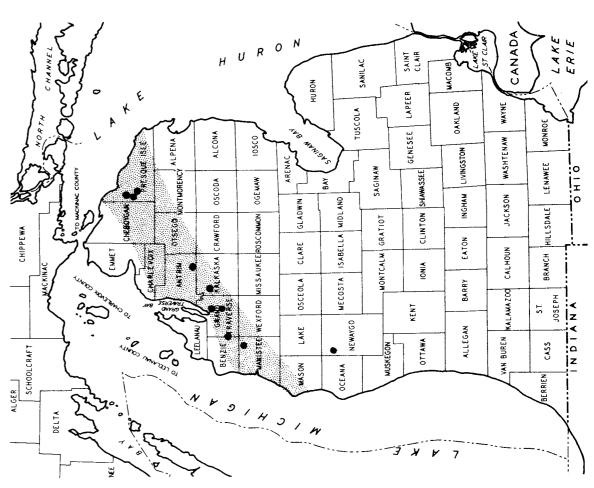


quartzites were encountered at about 5714 feet, thus moving the Precambrian top 167 feet higher, stratigraphically. Samples for this well are on file at the Michigan Geological Survey, Department of Natural Resources, Lansing, Michigan.

The Draysey No. 1 was plugged back to 3023 feet and tested in the Niagaran section. Perforations (16 holes) were made at 2772-80 feet, acidized with 500 gallons of 15%, and then swabbed. Swab tests recovered 100 barrels of acid and formation water in 20 hrs. A second swab test recovered about 40 barrels of fluid containing about 10% oil of 44 degree gravity, API. This zone was squeezed to a new PBTD of 2764 feet. New perforations (12 holes) were made at 2742-48 feet, acidized with 500 15% MCA. Swab tests recovered 60 barrels water. The zone was reacidized with 2500 gallons 15% and swab tested with recoveries of 292 barrels water and 17 barrels oil. It was shut in 10 hours and then swabbed 7 hours with recoveries of 143 barrels saltwater and an estimated 15 barrels of oil. These perfs were squeezed and new perforations (12 holes) made at 2742-48 feet. This zone was tested at varying intervals for 6 days with the last test (14 hours) spurels of fluid per hour, approximately 14% oil. Additional perforations (6 holes) were made from 2734-37 feet, and acidized with 250 gallons. Swab tests of this interval resulted in the recovery of 115 barrels of water and 8 barrels oil in 13 hours. Finally, the perf zones from 2734-37 feet and 2742-48 feet were swab tested 41 hours. Recovery from this test amounted to 385 barrels of water and 41 barrels of oil. A total of 165 barrels of water and 41 barrels of 15 barrels of water and 41 barrels of 15 barrels of 4 total of 165 barrels of 4 barrels. The well was abandoned as a dry hole.

A farm-out, direct 40 acre offset to Pan American's No. 1 Draysey was drilled with cable tools. This well bottomed-out at a total depth of 2767 feet, in Niagaran rocks. Operations reported an odor of gas in the Salina A-1 Carbonate formation overlying the Niagaran. No shows

of oil or gas were reported in the Niagaran section, and the well was abandoned as a dry hole. A second test several miles south of the Draysey No. 1 also had shows of oil in Niagaran cores, but was abandoned as a dry hole. Subsequent exploration in the northern part of the state during 1968 was unfavorable.



Cores from a number of the deep tests drilled in the northern part of the basin are on file at the University of Michigan Subsurface Laboratory and are available for inspection. They are:

Niagaran	Salina A-1 into Nipappa	Niagaran	Salina A-1 Carb	and Salt	מיוומ אין וונט	Nagaran	Salina A-1 into	Niagaran	Salina A-1 into	Niagaran	Salina A-1 into	Niagaran	Salina A-1 to	Niagaran	Salina A-1
29-35N-2E	12-34N-2E	35-29N-6W	17-27N-8W	FIGT NAC-05	30-200-12W		32-27N-10W		5-26N-10W		16-24N-13W		24-29N-7W		1-28N-5W
Pan Am Petr Corp #1 Dravsev	Pan Am Petr Corp #1 Smith	NMECO #1 Campsites *	NMECO #1 Keller *	NMECO #1 Comp+op			NMECO #1 Kennett *		NMECO #1 Dreves *		McClure #1 Griner		McClure #1 Bailey		Pan Am Petr Corp #1 State-Blue Lake **

^{*} Northern Michigan Exploration Company ** State-Blue Lake No. 1 was drilled in

* * STATE ACREAGE UNDER LEASE

State-owned lands under lease for oil and gas development at the end of 1968 amounted to 939,756 acres as compared with 308,177 acres at the end of 1967. Most of the newly leased land is in the northern part of the Southern Peninsula and was leased in connection with exploratory drilling and evaluation of the area. Revenue from oil and gas bonus, rental and royalty amounted to \$2,002,870 as compared with \$500,501 in 1967.

* PUBLIC HEARINGS

Act No. 61 of the Public Acts of 1939, as amended, provides for hearings on oil and gas matters. Act No. 326 of the Public Acts of 1937, as amended, provides for hearings on matters pertaining to natural dry gas. Hearings on matters of local concern involving the administration of rules and regulations, such as exceptions to spacing orders, or pooling of interests to form drilling units, are conducted by the Supervisor of Wells, the State Geologist. Hearings on matters involving broad policies and practices having field-wide or state-wide application are conducted by the Supervisor of Wells and before the Advisory Board. Oil and gas hearings held during 1968 are summarized below.

	1 2 1	Augustin Aug	August September Uctober November December lota is 3 2 2 29 29 3 4 4 4 4 4 4 4 4 4 4	October 3	November 2	December 2	otal
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* NEW PUBLICATIONS IN 1968

Champion, B. L., 1968, Oil-Gas Activity in Michigan;
Michigan Manufacturer and Financial Rec., V. 121,
No. 5, P. 12, 46.
Ells, Garland D., 1968, Michigan's Oil and Gas Fields
1967: Michigan Geol. Survey Ann. Statistical
Summ. 8, 72 pages.
and Layton, F. L., 1968, Developments in
Michigan in 1967: Am. Assoc. Petroleum Geologists
Bull., V. 52, No. 6, P. 976-980
Ives, R. E. and Eddy, G. E., 1968, Subsurface Disposal
of Industrial Wastes: Interstate Oil Compact
Comm., P. 109
Michigan Basin Geological Society, Oil and Gas Field
Symposium, 1968. This symposium is a collection
of papers on selected Michigan oil and gas fields.

COMPLETIONS BY DISTRICTS, 1968 NEW WELL ب

			DIST	DISTRICTS		
	Basin	Northern	Western	Southwestern	Southeastern	Totals
CLASSIFICATION OF NEW WELL COMP.						
0il Wells (1)	20	4	16	11	19	70
Gas Wells (2)	-	~−1	0	H	თ	12
Gas Storage Wells	23	0	0	0	4	27
Water Injection Wells	0	2	0	0	0	2
LPG Storage	0	0	0	0	9	9
Brine Wells	0	0	0	0	П	,1
Dry Holes	44	6	40	37	121	251
Total Well Completions	88	16	56	49	160	369
EXPLORATORY WELLS COMP.						
Exploratory Tests D & A	27	6	59	11	75	151
Successful Explo. Tests*	4	1	3	0	5	13
Total Explo. Tests	31	10	32	—	80	164

DRILLING PERMITS AND NEW COMPLETIONS BY MONTHS, 1968

					MON	25						1
Jan.	. Feb	. March	April	May	June	July	Ang.	Sept.	Oct.	Nov.	Dec.	Totals
32	34	18	25	39	19	26	42	32	46	33	32	378
CLASSIFICATION OF NEW WELL COMPLETIONS												
7	7	က	വ	9	က	7	9	9	<u>о</u>	_	4	20
2	0	က	0	0	0	7	,	2	-	, 1	0	12
Gas Storage Wells 0	0	0	0	⊣	~	9	Ŋ	က	က	വ	က	27
Water Injection 0	0	0	0	,	0	0	0	.	0	0	0	2
0	7	,	7	~ -1	0	0	0	, 1	0	0	0	9
0	0	0	0	~	0	0	0	0	0	0	0	, 1
23	19	18	13	19	18	27	22	24	21	56	21	251
Fotal Well Completions 32	27	25	20	29	22	42	34	37	34	39	28	369
EXPLORATORY WELLS COMPLETED												
Exploratory Tests D & A 16	6	∞	თ	7	13	18	16	11	12	17	15	151
Successful Exploratory Tests* 2	0	2	0	0	0	_	1	2	2	က	0	13
Fotal Exploratory Tests 18	6	10	6	7	13	19	17	13	14	50	15	164

- not include oil wells resulting from rework operations. not include gas wells resulting from rework operations. not include new pool discoveries; does include l extension discovery Does Does Does

2, OIL AND GAS FIELDS

Part 2 brings together general information mainly on Michigan's oil and gas fields, gas storage reservoirs, gas plant operations, and LPG storage facilities. In previous issues of oil and gas summaries, abandoned oil and gas fields. Certain cross-references in past published tables have been inconvenient and in some cases, confusing. The past system has been discontinued in favor of a single, consolidated table listing all oil and gas fields, active and abandoned, in alphabetical order. Developed and undeveloped gas storage reservoirs are also integrated in the listing, but for convenience they are also shown on separate tables.

MICHIGAN OIL AND GAS FIELDS, TABLE 4. Most fields consist of one pool with oil or gas production coming from a single formation. A few fields have 2 or more separate pools, each producing from a different formation or stratigraphic interval and at a different depth. Field names are shown in the first column and the producing pool, or pools, are shown under PRODUCING FORMATION OR POOL. The symbol on the left margin of the table indicates the official classification of fields and pools at the end of the year. LOCATION OF FIELDS according to Township, Range, and Sections are found at the bottom of the field block. The listed sections are those which have, or have head, producing wells assigned to the field. Oil and gas fields are considered abandoned when all wells have been plugged to the surface and the field equipment has been removed from the area. Abandoned pools within a multi-pool field are shown by symbol and by abandonment date. The PAY ZONE part of the table generally refers to data for the pool discovery well. The PAY THICKNES shown does not necessarily indicate net producing pay for the reservoir. The DEEPEST FORMATION TESTED column indicates the deepest total depth and formation penetrated in the field. The NUMBER OF OIL AND GAS WELL columns indicate the number of successful field year,

the number completed as producing wells during the year, the number abandoned during the year, the number producing at the end of the year. Most of the latter category are producible wells but for various reasons they were not in operation. The DRILLED ACRES column indicates the number of acres assigned to the field or pool according to individual well drilling units. A field may have a 10 or 20 acre drilling unit for one pool and a 40 acre drilling unit for a deeper formation pool within the field. Drilling units for oil wells have generally been of 10, 20, or 40 acre size. Gas well units, especially for Michigan Stray Sandstone reservoirs, have generally been 160 acre units. Other sizes currently in use are 40, 80, and 320 acre units. Changes in drilling units, off-pattern wells, etc. complicate the maintenance of accurate acreage figures during the life of a given field or individual pool. Where possible, drilled acreage is shown for individual pools. The figures cited in the column are not entirely accurate but do provide as near as possible an indication of the areal size of the field. The figures do not indicate the areal size of the field or gas reservoir. RECOVERY PER DRILLED ACRE figures for oil pools result from dividing the drilled acres figure into the cumulative oil production figure.

OIL AND GAS FIELD MAPS. These insert maps show the general locations of most Michigan fields. It is not practical to outline and show the names of all hydrocarbon accumulations that have been designated as an oil or gas field. In general, the field names shown on the several maps are in agreement with the field names shown on oil

GAS FIELDS. Because of lack of marketing facilities, slow field development, or small reserves, some gas fields are listed as "shut in" and show no production figures. Others produce small quantities of unmetered gas and are not considered commercial. Production from these fields

is used as lease fuel or for domestic use.

GAS STORAGE RESERVOIRS. Most gas storage reservoirs were originally classified as gas fields or pools and upon depletion or near depletion they were converted to storage reservoirs. Undeveloped gas storage reservoirs are gas pools that have been designated to become storage reservoirs at some future time.

The producing sections listed on gas storage reservoir tables do not necessarily relate to current gas storage area or boundaries. The sections, or parts of sections, which are listed are those which contained at least one producible oil or gas well assigned to the field or pool prior to conversion to gas storage. Also, the sections do not necessarily relate to potential or future gas storage area or boundary.

LPG STORAGE. Surface and underground storage facilities for liquified petroleum gas.

OIL WELL GAS. This is casinghead gas produced incidental to the production of oil from pools or fields generally classified as oil accumulations.

OIL AND GAS WELL RECORDS. Geological logs and drillers logs are available for more than 27,500 oil and gas tests drilled in the Southern Peninsula. Individual logs may be purchased at small cost.

WELL SAMPLE SETS. Well cuttings from about 9000 wells are available for inspection at the Geological Survey, Lansing, Michigan.

TABLE 4 MICHIGAN OIL AND GAS FIELDS

						4	ABLE			AN	5	1	کااٍ≤	DAS			040010	GLOVORDO BOAGOTO SAO		900	S CAS CTOBAGE BESERVOLR	30,30	a lova	
ا	P001 CLA	POOL CLASSIFICATION	Å V	ACTIVE OIL FIELD OR POOL	70	ABAND	ABANDONED OIL	<u>.</u> [OR POOL - ACTIVE GAS FIELD OR FUOL	IVE GA	SFIEL	0 OK P	Ϋ́	ABANDOL	ABANDONED GAS FIELD	ž	GAS STORAG	NE GENACIE	5 D	UNDEVELORED	2010 0000			
	FIELD NAME	COUNTY YEAR TOWNSHIP OF PRODUCING SECTIONS DISC	YEAR OF DISC.	PRODUCING FORMATION OR POOI	DEPTH	PAY ZONE THICKNESS AND LITHOLOGY	S OIL		DEEPEST FORMATION CORPORT FOOL TESTED	DEPTH IN FEET	NUMBE TO COM	O COMP. ABAND. P	AT E	GAS WELLS CING SHUT IN SHUT DOW	PRODUCTION CUI	CUMULATIVE THROUGH	GAS PRODUCTION - MCF PRODUCED CUMULATIVE IN THROUGH 1968 1968	CUMULATIVE THROUGH	DRILLED	RECOVERY PER ACRE DRILLED (BBLS.)	DISPOS	ALSURFACE	TOTAL BBLS.	
•	ADAIR	ST. CLAIR	1961	SALIN		10 D	41.4		NIAGARAN	2755	18	-	16	Е	1	264,033	6,880	468,773	260	1,71	221		221	
		, 4N-16E,	SECTION	7 CASCO TWP.,	5E, SEC		13			\top		+											1	
•	ADAMS	ARENAC -BAY	1937		2032	- 1	+	O BOIS	S BLANC	5079	-	+	80	.7					240		1	9	AT .	
•			1937	DUNDEE	2958		-+-			\top	31	0	17	٥					310		5	&	25	
•			1956	DETROIT RIVER SZ	3943	20 E	39.6	9.			5	0	α		90.356	1.424.503			1080	873	0	O.	0	
		100		8		, ,		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		-	-	+	0 8	_ •	anota a autom	oz entos c estan	8	SOUTHERTONS	RICHETELD	_ A	ZONE			
-		ADAMS TWP., 19N-3E, SECTIONS 21, 23, 24,	SECTIC	3, 8,	27, ¾,	35, 36	DEEP RIV	IVER TWP.,	DEEP RIVER TWP., 19N-4E, SECTION 3	E .	+	-	THE	∞L	INCLUDE 5 KICHL	WELLS INCLUDE 5 KICHFIELD, I SOUR ZONE,	Me, AMD 2 DOM	COMPLETIONS,	L'ORF IEM		LOND			
Ø.	ADAMS, NORTH	ARENAC	1,942	_	1605		+	+	DEE	3101		BAM -	함		100	90 5		1,280	Q4 E	10.570	3005	-	3005	
			1950		2905	15 D		\exists	DETROIT RIVER	68##	0 6#	0	167	-	33,102	C20,061,6			2		2362	1	2000	
		ADAMS TWP., 19N~3E, S	SECTIO	SECTIONS 11, 14, 15, 22, 23, 2	27 BE	BEREA PRODU	PRODUCTION -	SECTION 4			+													
效	ADAMS, SEC. 8	HILISDALE	1962	TRAVERSE	1420	17		PRA.	PRAIRICE DU CHICEN	4169	п	ABANDONED	3D 1965					18,919	8					
		ADAMS TWP., 68-2W, SE	SECTION	N 8				-																
•	AKRON	TUSCOLA	1936	DUNDEE	2678	17 L	37.3		SYLVANIA	4130	20	0	.g.	9					1100		107	*30	137	
•			1938	BETROIT RIVER SZ	3422	11 D	35.9	(6:			27 0	٥	19	CV	43,941	1,768,246			500	1,105	٥	*32	32	
•			1954	RICHFIELD	37.74	Q 9	39.2	.2					THE	19 WELLS	INCLUDE 2 RICHI	19 WELLS INCLUDE 2 RICHFIELD, 12 SOUR ZONE AND	ONE AND 5 DUAL	COMPLETIONS,	SOUR ZON	SOUR ZONE & DUNDER				
		AKRON TWP., 14M-8E, S		SECTIONS 19, 20, 21, 28, 29, 3	30 14	WISNER TWP., 14N-7E	., 14N-71	TE, SECTIONS 22,	NS 22, 23, 24, 25,	Ж,														
	ALAMO	KALAMAZOO	1949	TRAVERSE	1310	2 7		TRA	TRAVERSE	1420	97	ABANDONED	en 1962			2T,545			360	172				
		ALAMO TWP., 18-12W, 8	SECTIC	SECTIONS 19, 29, 30							-	\dashv							_					
效	ALBION	CALHOUN	1941	TRAVERSE	1610	- I		PRA	PRAIRIE DU CHIEN	4623	4	ABANDONED	1948					411,9	120					
		ALBION TWP., 38-4W, 8	SECTIC	38-4w, SECTIONS 14, 15							\dashv	_												
																			-					
	ALBION-PULASKI-SCIPIO TREND:		D AND E	FIELD AND PRODUCTION DATA LISTED BY TOWNSHIP AND COUNTY	TOWNS	HIEP AND C	YIMO				+													
¢	CAL-IBE	CALHOUN	1962	NIAGARAN	3036	8 D	_	FRA	PRAIRIE DU CHIEN	4912	2	0	2	4			331,114	680,050	320					
		LEE TWP., 18-5W, SECT	SECTIONS 16,	16, 22					A 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10			4							_	1				
	LEE TWP.	CALHOUN	1961	NIAGARAN	3060	20 D	24.2	-	PRAJENTE DU CHIEN	4912	7	0	4	м	0	692,6			8	99				
•			1960	TRENTON-BLACK RIVER	0094	24+ D					15	3	10	-	107,200	4/1,261,174			%	694,4	٥	0	0	
		LEE TWP., 18-5W, SECT	CTIONS	SECTIONS 17, 22, 23, 26								4				_	4							
•	SHERIDAN TWP.	CALHOUN	1960	TRENTON-BLACK RIVER	4179	10 ⁴	0.04	\dashv	PRAIRIE DU CHIEN	4791	14	8	141	m	678,555	2,969,966	244,103	315,210	8	3,712	1,146	*S9	1175	
		SHERIDAN TWP., 28-4W	W, SEC	28-4W, SECTIONS 17, 18, 19, 20, 21,	, 28, 33	£		-			+									_				
•	ALBION TWP.	CALHOUN	1958	TRENTOW-BLACK RIVER	3952	3 D	o: #	-	PRAIRIE DU CHIEN	4623	143	0	138	21	1,378,099	17,327,619	3,043,294	9,223,067	2760	6,278	3,167	6	3176	
		ALBION TWP., 38-4W,	SECTION	ALBION TWP., 38-4W, SECTIONS 3, 4, 10, 11, 14, 15,		22, 23, 26, 27,	, 35, 36	9			-													
•	PULASKI-HOMER TWPS.	JACKSON-CALHOUN	1959	TRENTON-BLACK RIVER	3766	0 +99	39.6	_	PRAIRIE DU CHIEN	4395	139	0	136	9	1,472,916	20,032,066	3,095,516	8,777,760	2670	7,503	7,056	-	7057	
		PULASKI TWP., 4S-3W,		SECTIONS 6, 7, 8, 17, 18, 19,	20,	21, 28, 29,	, 32, 33,	₹.	HOMER TWP., 45-4W,	SECTIONS 1,	3 1, 12													_
	SCIPIO-FAXETTE- MOSCOW TWPS.	HILLSDALE	1957	TRENTON-BLACK RIVER	3576	φ	4.1.4	\dashv	PRAIRIE DU CHIEN	4202	\$	0 2	181	6	3,001,440	34,768,761	129,760,4	712,264,11	3450	991,01	4,902	2	†06†	_
		SCIPIO TWP., 58-3W, 8	SECTION	SECTIONS 3, 4, 10, 11, 12, 13, 14, 15, 23,	1,41	15, 23, 24,	25, 28	6; PAYETTE	; FAYETTE TWP., 58-3W, SEC	SECTIONS 35,	%	MOSCOW IN	TWP., 58-2W,	, SECTIONS 19,	3 19, 31, 32				4					
	ADAMS TWP.	HILLSDALE	1959	TRENTON-BLACK RIVER	3984	Q +9	42.0	_	PRAIRIE DU CHIEN	4162	22	3	147	т	509,972	5,595,792	1,085,787	2,863,151	930	6,017	664	٥	664	_
		ADAMS TWP., 68-2W, SECTIONS	SECTION	MS 3, 4, 5, 6, 8, 10, 16,	, 17						\exists	\dashv												
	TREND TOTAL:		1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	1	1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		596 18	4 80	559	37	7,148,182	81,861,657	11,566,321	82,735,521	10,920	7,496	16,770	1,1	118,811	
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L	רון בחחו פון	FUUL GLASSIFICATION	ACTIVE OIL FIELD	D OR POOL	VBV	ABANDONED OIL	따	POOL TO ACTIVE	IVE GAS	GAS FIELD OR POOL	OR POOL	\$	9	GAS FIELD OR POOL	OR P001 (H	GAS STORAG	힜	D.	UNDEVELOPED	9	RAGE RE	SERVOIR
		COUNTY			-	PAY ZONE		DEEPEST FORMATION DE			0F 01L (or GAS WELLS	\neg	OIL PRODUCTION	10N - BBLS.	GAS PRODUCTION	TION - Mcf.		RECOVERY		BRINE PRODUCTION	NO.
>	FIELD NAME	PRODUCING SECTIONS DISC	SC. POOL	DEPTH IN FEET	TH THICKNESS N AND ET LITHOLOGY	GRAVITY GRAVITY GGY A.P.1.		STED	FEET	TO COMP.	COMP. ABAND, PRODUCING IN AT END 1968	ODUCING S VT END SH	SHUT IN OR SHUT DOWN	PRODUCED IN 1968	CUMULATIVE THROUGH 1968	PRODUCED IN 1968	CUMULATIVE THROUGH 1968	ACRES	081LLE0 (8BLS.)	DISPOSAL SUBSURFACE SURFACE	SAL	BBLS.
Ø	ALGONAG	ST. CLAIR 1947	47 ANTRIM	ř	302 6	HS	CABOT HEAD	HEAD	2504	2 AB	- ≘	1951	1 i				7,830	8				
•	ALLECAN	CLAY TWP., 3N-16E, SECTIONS ALLEGAN 1937	IONS 20, 29	1563	63	L 38.0	.o CINCINNATIAN	NATIAN	2987	18 AB	ABANDONED	1961			15,577			180	87			
		ALLECAN TWP., 2N-13W, Sections 2, 5,	ections 2, 5, 9, 10,	0, 13, 22, 23,	3, 26, 27,	34, 35, 36	26		-		1								-			
☆	ALPINE	ST. CLAIR 1963	53 NIAGARAN	3151	51 25	ū	CLINTON	×	3470	0 11	0					154,200	229,825	8		0	0	0
		WALES TWP., 6N-15E, SECTION	rron 32																			
•	ARBELA	TUSCOLA 1946	+6 DUNDEE	2557	57 7	L 35.3		DETROIT RIVER	3375	35 0	0	ده		2,824	209*618			350	913	٥	٥	۰
		ARBELA TWP., 10N-7E, SEC	SECTIONS 28, 33, 34																			
P	ASHLAND, SEC. 8	NEWAYGO 1959	59 TRAVERSE	2238	38 1	ъī	TRAVERSE	SE	2239	1 AB.	ABANDONED	1962			198			OT.	27			
		ASHLAND TWP., 11N-13W, SECTION 8	SECTION 8																			
♡	ASHTON	OSCEOLA 1946	46 MICHIGAN STRAY	Y 1215	2 2	υ υ	DETROIT	T RIVER	3779	3	0	1		0		0	205,680	001		٥	°	0
•		1945	+5 TRAVERSE	2950	7 02	1.042.0	0.			0	0	m						&		14.35	0	435
•		1945	+5 DUNDEE	3645	5 2	L 40.0	o.			0	0	#	-	10,229	454,790			82	1517	0	-	٦
		LINCOLN TWP., 18N-10W, SECTIONS 5,	ECTIONS 5, 6																			
♡	ASHTON, EAST	OSCEOLA 1962	S2 MICHIGAN STRAY	1297	97 5	8	REED CI	CITY	3750	0	0	п	-			0	0	160				
		LINCOLN TWP., 18N-10W, SECTION 3	RECTION 3																			
•	ATLANTA	MONTMORENCY 1945	+5 DETROIT RIVER	2183	33 5	D 36.2	2 DETROIT	T RIVER	2550	3	0	п		0	7,688			30	556	0	٥	0
		AVERY TWP., 30N-3E, SECTIONS 10, 15	110NS 10, 15																			
•	AU GRES	AREMAC 1956	56 DETROIT RIVER	3852	17	L 33.4	.4 RICHFIELD	ELD	4315 DE	ETROIT RIVER	SZ	COMBINED WITH	WITH RICHEDELD									
•		1953	3 RICHFIELD	4152	11	ь 36.5	2			0	0	3		2,169	45,731			160	586	0	7	7
		AU GRES TWP., 19N-6E, SECTIONS 2, 3, 10, 11	CTIONS 2, 3, 10, 1	-								THE 3 W	WELLS INCLUDE	DE 2 RICHFIELD	ELD AND 1 RICHFIELD	FIELD AND SOUR	ZONE					
Ф	AUSTIN	REPER TO TABLE 5 DEVELO	5 DEVELOPED GAS STORAGE RESERVOIRS	SERVOIRS																		
•	BANGOR	VAN BUREN 1939	39 TRAVERSE	1002	C4	L 29.5	.5 TRENTON	2	2552 6	65 AB	ABANDONED :	1959			933,965			610	1533			
		BANGOR TWP., 28-16W, SECTIONS 4, 5, 9,	å	14, 15, 16, 21,	, 21, 28, 29	62																
•	BARD	GLADWIN 1949	69 DUNDEE	3933	33 6	L 42.8	.8 DUNDER		4017	17 0	0	#	п	3,166	570,475			170	3356	160	0	160
		BEAVERTON TWP., 17N-2W, SECTIONS 5,	SECTIONS 5, 6	GROUI	GROUT TWP., 18N-2W,		SECTIONS 31, 32						1									
•	BARTON	NEWAYGO 1947	17 TRAVERSE	3097	ч	L 30.0	O DEFROIT	P RIVER	3745	3 AB/	ABANDONED 1	1963			20,227			55	405			
		BARTON TWP., 16N-11W, SECTION 16	SCTION 16																_			
•	BEAVER, SEC. 31	BAY 1954	54 BEREA	2413	13 16	SL	SYLVANIA		4754	1 ABV	ABANDONED	1961			926			ដ	93			
		BEAVER TWP., 15N-3E, SECTION	TION 31																			
•	BEAVER CREEK UNIT	CRAWFORD-KALKASKA 1947	r RICHFIELD	1760	50	7. 44.7	.7 SYLVANIA		4503 IC	101	12	51		420,511	6,806,450	514,225	16,424,698	4160	1636	213	0	213
		BEAVER CREEK TWP., 25N-4W, SECTIONS 7,	ထိ	16, 17, 18, 19,	20,	21, 27, 28, 29;	. 29; GARFIELD	TWP., 25N-5W,	SECTIONS 12,	8 12, 13												
•	BEAVERTON	GLADWIN 1934	34 DUNDEE	3929	12	г 41.3	.3 RICHPIELD	_	5225	0 92	0	7	-	4,335	864,477			330	5620	7.1	0	t,
		BEAVERTON TWP., 17N-2W, SECTIONS 2, 3, 11, 13	SECTIONS 2, 3, 11,	13							\vdash											
•	BEAVERTON, SOUTH	GLADWIN 1956	6 TRAVERSE	3231	31 6	L 41.0	O DETROIT	RIVER	4977 TRA	TRAVERSE COM	COMBINED WITH	TH DUNDEE										
•		1936	36 DUNDEE	3845	12	J4.5	5		6-1	33 0	0	19		20,296	1,606,795			202	2263	242		245
		BEAVERTON TWP., 17N-2W, SECTIONS 26,	23	35, 36; TOBACCO		TWP., 17N-1W, SECTION	ECTION 31					THE 19 W	WELLS INCLU	INCLUDE 18 DUNDEE	E AND 1 DUNDEE	& TRAVERSE						
•	BEAVERTON, WEST	GLADWIN 1943	13 DUNDEE	3876	2 2	L 43.2	2 DETROIT	r RIVER	\$05	7 0	0	.7		9,757	143,923			560	553	13	0	13
		BEAVERTON TWP., 17N-2W, SECTION 19	SECTION 19		_	-				\exists												
\oplus	BELLE RIVER MILLS	REFER TO TABLE DEVELOPE	DEVELOPED GAS STORAGE RESERVOIRS	ERVOIRS					_	_		_						<u>_</u>				

					100 - 1																		
Figure Province	-			VE A R	PRODUCING		PAY ZONE		MATHO		NUMBE	2 OF 011	٥	۲	IL PRODUCT	ION - BBLS.	GAS PRODU	TION - Mcf	_	RECOVE		PRODUC	TION
Marie Mari	Ì	FIELD NAME	COUNTY TOWNSHIP PRODUCING SECTIONS	OF DISC.			THICKNESS AND THOLOGY	OIL GRAVITY A.P.I.	OR POOL TESTED	FEET	TO COM	. ABAND.	P RODUCING SH	SHUT IN OR IUT DOWN	PRODUCED IN 1968	CUMULATIVE THROUGH 1968	PRODUCED IN 1968	-		S DRILLE (BBLS.		OSAL E SURFA	TOTAL BBLS.
Note	•	BELLY ACHERS	MONTCALM	1944		3470	1.3 D	48.2	DUNDEE	3615	Ш	-	3	-	785	334,512			250	\vdash			8
Section Sect			12N-6W,	SECTIONS	11, 14														-			-	-
Figure 1971		BENONA, SEC. 13	OCEANA	1949	TRAVERSE	1640	- 1		DETROIT RIVER	2276		UBANDONED	- 1			4,951			8	4		-	
Notice 1,000 10 10 10 10 10 10			BENONA TWP., 14N-18H	w, SECTI	CON 13	-					_								-			\perp	+
Second Column 15th		BENTLEY	GLADWIN	1952	TRAVERSE	2855		34.1	SYLVANIA	5114 75	AVERSE C	WBINED W	TTH DUNDER	RICHEISI					+			1	+
Note that the control of the contr	•			1937	DUNDEE	3510	- 1	42.1			-	+	24	#					+		79	*13	ま
Note that Note No	•			1952	RICHFIELD	0444	1	1,0.0			_	-	п		38,433	2,758,109			1960	-			~
Second			BENTLEY TWP., 17N-2E	E, SECTI	18, 19,		28, 29,	34, 35			\dashv		THE 48	WELLS INC	TUDE 147 DUNDE	E AND I MULTI	PLE COMPLETIO	TRAVERSE, DA	NDEE & R	TCHFIELD		-	-
State Stat		BERLIN	ST. CLAIR	1960	NIAGARAN	3800		42.8	CINCINNATIAN	1,310		_	.7		16,220	328,127			140	-		_	٥
Control Cont			BERLIN TWP., 6N-13E,	, SECTIO																			
Secondary Seco		BEVANS LAKE	MECOSTA	1952	MICHIGAN STRAY	1244			REED CITY	37.7.1			1	н			0	_			0		٥
The column Section S	•			1951	TRAVERSE	2997		1,2					п		1,063	89,022			07			_	&
The parameter Court Carlot Cou	₽	C. T. C.		1951	DUNDEE	3536							7				13,231			Q	0	_	٥
The parameter The paramete			GREEN TWP., 16N-10W,	, SECTIO	N 1.3																		_
The Paylor of Paylor of Paylor Payl	•	BIG HAND	ST. CLAIR	1961	NIAGARAN	2898		39.5	CLINDON	3097			6		67,350	579,277			220	-		*	147.
The probability of the probabi			COLUMBUS TWP., 5N-15	5E, SECT	TIONS 24, 25																		
The parameter of the	Ø	BIG PRAIRIE	NEWAYGO	1944	MICHIGAN STRAY	1030			REED CITY	3322		BANDONED						152,861	-	_			
The parameter of the			BIG PRAIRIE IWP., 15	3N-11W,	SECTION 16																		4
No.	Ø	PRAIRIE, SEC.		1947	DUNDEE	2896			DUNDEE	2900		BANDONEL	- 1					62,324					
This parties Marche Marc			BIG PRAIRIE TWP., 15	3N-11W,	SECTION 33																		_
State Stat	₽	BIG RAPIDS	MECOSTA	1943	MICHIGAN STRAY	11145			REED CITY	3595		-	1				6,719		-	_	0		0
STATIONS CLAVIDE 1940 STATIONS 1940	ø			1965	DUNDER	3450	- i				-	-	п	1			0	_	-		0	0	0
Third control			TWP.,		3, 9, 10, 11,	g	Ţ												1			\downarrow	4
Note	•	BILLINGS	GLADWIN	1949	DUNDEE	3549	- 1	39.7	RICHFIELD	4664	-	_	19						8	_	2	°	2
RILLINGS, GOUTHS DILLINGS OFF, 170-15, SENTINGS 2, 3, 10, 11 STATIONS 2, 3, 10, 11 STATIONS 2, 3, 10, 11 STATIONS 2, 11, 11, SENTINGS 2, 3, 10, 11 STATIONS 2, 11, 11, SENTINGS 3, SENTING	•			1950	DETROIT RIVER	4070		43.5					6		13,401	748,439			200	\dashv		°	٥
STATIONES, SOUTH 1977 1980 19			BILLINGS TWP., 17N-1	IE, SECT	TIONS 2, 3, 10, 11]													4
RILLINGS TUPE, 177 THE SECTIONS 12, 31 BHRITH FORD, 177-45, SECTIONS 19, 13, 134 BHRITH FORD, 177-45, SECTIONS 19, 13, 13, 134 BHRITH FORD, 177-45, SECTIONS 19, 13, 13, 134 BHRITH FORD, 177-45, SECTIONS 19, 13, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	•	BILLINGS, SOUTH	- 1	1957	DUMDEE	3540	2 2	39.5	DETROIT RIVER	4152	\perp	\dashv	89		8,668	134,360			2	+			1
Figure 1921 Sanche Native 1921 Sanche Native 1922 Sanche Native				IE, SECT	TIONS 12, 13; BENTLEY IN	.P., 17N	-ZE, SECTI	TON 18											\downarrow			-	4
BIRCH RUN TUPL, 104-66, SECTIONS 59, 56, ABERIA TUPL, 101-7E, SECTIONS 30, 31, 32 BIRCH RUN TUPL, 104-66, SECTIONS 19, 60, 21 41, 21, 21 41, 2	•	BIRCH-BELA	SAGINAW-TUBCOLA	1951	DUNDEE	2504		36.0	DEFROIT RIVER	3263	-	\dashv	59	н	21,374	236,089			330	+		*	9
BIRCH RUW SAGINAN 1994 BREAR 1594 BREAR 1594			BIRCH RUN TWP., 10N-	1-6E, SEC	CTIONS 25, 36; ARBELA TA	WP., 10N	-TE, SECTI		u, 32										4			4	4
HINCH CHY THP., 10TH-GR. SECTIONS 19, 20, 21 (Barrell NAT PRP.) 10TH-GR. SECTIONS 19, 20, 20 (Barrell NAT PRP.) 10TH-GR. SECTIONS 21, 225 (Barrell NAT PR.) 10TH-GR. SECTIONS 21, 225 (Barrell NAT PRESERVE NAT PROPERED NAT PROPERTY NAT	e	BIRCH RUN	SAGINAW	1934	BEREA	1530		43.3	DUNDER	5646	_	4BANDONEI				215,876			250	+			
BLISSPEELD THY, 10N-GE, SECTIONS 19, 20, 21 (Berea); BENCH RUT THY, 10N-GE, SECTIONS 19, 20, 22; Annual September 15, 22; Annual September 15, 23, 25; Annual September 15, 25; SECTIONS 19, 20, 30 Annual September 15, 25; SECTIONS 21, 32; BUSHNELL PRIVE, SH-CF, SH-CF, SH-CF, SH-CF, SH-CF, SH-CF, SECTIONS 5, 6	•	5.0000		1954	DUNDEE	2536	i	36.2	DUNDEE	2716	_		32		15,781	480,485			1,80	\dashv		*	7
BLISSPIELD THF, 12H-13H, SECTIONS 19, 20, 30 GARTIELD THF, 12H-13H, SECTIONS 19, 20, 30 BLISSPIELD THF, 12H-13H, SECTIONS 21, 32; BUSHNELL THF, 54, SECTIONS 51, 54, SECTIONS 51, SECTIO			BIRCH RUN TWP., 10N-	1-6E, SEC	됞	a); BIRCI	H RUN TWP.	, 10N-6E,	SECTIONS 19,20,29;			-SE, SECT	TON 13 (Dun	dee)					-	-			_
SHISSPEELD LEGNARE 1963 THERMON-BLACK RIVER 2666 9 D CLERMOOD 3551 1 O O D 1 H, 653 1,926,191 CLEAR 1964 CLEAR C	Þ	втзнор	NEWAYGO	1950	TRAVERSE	5226			TRAVERSE	2238		ABANDONEL	- I			33,327			ort	-			-
BLOOKER LENANTE 1964 THANTERS 6666 9 D CLEANAGO 3571 1 0 0 1 14 280 20,502 29,212 40 QUANTITIES OF DILL BLOOKER BLOOKER MONTOLIAL-TOKIA 1,944 TRAVERSE 2640 3.3 L 42,3 DEFINITION SY, SECTION S, NORTH PLAINS TWP., SH-78, SECTION S, SH-78, SH-78, SECTION S, SH-78, SH-78, SH-78, SH-78, SH-78, SH-78, SH-78,				13W, SEC																			_
BLONGER MONTCALM-LOWITA 1.944 TRAVERSE 2640 3.3 L 42.3 DEPROTE BIVER 3271 29 0 2 5 114,653 1,926,191 530 3634 BLONGER WP., 98-54, SECTIONS 31, 32; BUSHNELL WP.P., 94-64, SECTIONS 11, 81-54, SECTIONS 5, 6	\Box	BLISSFIELD	LENAWEE	1963	TREMTON-BLACK RIVER	3686			GERMMOOD	3251			7		144	280	20,502		_		RESERVOIR P	RODUCING	SMALL
BLOOMER MONTGALM-TOWLA 1944 TRAVERSE 2640 3.3 L 42.3 DETROIT AIVER 3271 29 0 2 5 14,653 1,926,191 550 3634 BLOOMER TWP., 9N-5W, SECTIONS 31, 32; BUSHNELL TWP., 9N-6W, SECTIONS 5, 6 1 1,926,191 550 3634			BLISSFIELD TVP., 7S-	-5E, SEC	STION 5																		
36; NORTH PLAING TWP., 8H-5W, SECTIONS 5, 6	•	BLOOMER	MONTCALM-IONIA	1944		0498		42.3	DETROIT RIVER	3271			2	1	14,653	1,926,191			530	\dashv	_		850
			BLOOMER TWP., 9N-5W	, SECTIC	ONS 31, 32; BUSHNELL TWI	P., 911-61	W, SECTION	v 36; NOR	TH PLAINS TWP., 8N-5W	, SECTION	5,			+					\downarrow	+		-	
																			- 1	_	⊣	_	4

į				1	TABLE	.Е 4	₹	CHIGAN	1	AN	AND GAS		FELUS (confinued	-						
L'	P001 CL)	POOL CLASSIFICATION	ACTIV	ACTIVE OIL FIELD OR POOL	701	ABANDO	ABANDONED OIL F	IELD OR POOL 🔆	TIVE	GAS FIELD OR	LD OR POOL	Ø	ABANDONED		GAS FIELD OR POOL		GAS STORAGE RESERVOIR	Θ	DEVELOPE	UNDEVELOPED GAS STORAGE RESERVOIR	GE RESE	RVOIR
	FIELD NAME	COUNTY YEAR	YEAR OF	PRODUCING FORMATION	DEPTH	PAY ZONE	E E	DEE		Σ P	NUMBER OF OIL	IL or GAS W		0	CTION - BBLS		TION - Mcf.	DRILLED	RECOVERY PER ACRE	BRINE PRODUCTION	ODUCTIC	N TOT
>		PRODUCING SECTIONS	DISC.	0R P00L		AND LITHOLOGY	GRAVITY A.P.I.	POOL TESTED	FEET	EN C	1968	1968 AT END S	OR SHUT DOWN	1968	1968	1968	THROUGH 1968		ORILLED (BBLS.)	SUBSURFACE	RFACE	BBLS. DAY
P	BLOOMER, SEC. 18	MONTCALM	1936	TRAVERSE	27.17	т 9		DUNDEE	3138	п	ABANDONED	D 1936			8114			101	81			
		BLOOMER TWP., 9N-5W,	SECTION 18	18																		
•	BLOOMINGDALE	VAN BUREN	1938	TRAVERSE	1244	T t	1,2,0	TRENTON	3090	1,431	0	27	6	8,478	9,974,338			07:04	5469	104	я	41.8
		BLOOMINGDALE TWP., 18	18-14W, SE	SECTIONS 1, 2, 3, 6, 7	7, 8, 9,	10, 11, 12,	2, 13, 14,	, 15, 16, 17, 18, 24;	COLUMBIA	TWP.,	18-15W, SE	SECTIONS 1, 2,	10, 11,	12, 13, 14,	15, 16, 23, 24;	PINE GROVE	TWF., 18-13W,	SECTION 18				
•	воур	ST. CLAIR	1958	SALINA-NIAGARAN	2457	292 D	37.7	PRECAMBRIAN	†€9†	0 64	0 1	Str	5	119,727	1,502,469	1,189,053	11,485,505	1840	816	954	0	456
		CASCO TWP., 4N-15E, S	SECTIONS	SECTIONS 29, 31, 32, ₩½ 28, W	₩ <u>\$</u> 33; I	IRA TWP., 3N-15E, SE	3N-15E, SI	SCTIONS 5, 6,														
P	BREEDSVILLE	VAN BUREN	1943	TRAVERSE	1061	2 L	33.0	DETROIT RIVER	1445	82	ABANDONED	1961 0			285,584			8	952			
		GENEVA TWP., 18-16W, SECTIONS 23, 24,	SECTIONS	5 23, 24, 25, 26							_											
•	BRINTON	ISABELLA	1967	DUNDEE	4082	3 D		DUNDEE	4085	1	0	r		8,715	10,7779			0‡	569	250	0	250
		COLDWATER TWP., 16N-6W, SECTION 5	6W, SECTI	TON 5																		
Φ	BROOMFIELD-DEERFIELD	D REFER TO TABLE 6 UNDEVELOPED GAS STORAGE RESERVOTES	EVELOPED	GAS STORAGE RESERVOI	RS																	
•	BUCKEYE, NORTH	GLADWIN	1936	DUNDER	3615	14 1	39.0	SYLVANIA	5351	287 C	0	62	12	465,911	18,933,262	0	48,63	3030	6489	2115	*17	2132
		BUCKEYE TWP., 18N-1W, SECTIONS 1, 2,	, SECTION	WS 1, 2, 3, 4, 9, 10,	11, 12,	, 13, 14, 15;	15; HAY TV	HAY TWP., 18N-1E, SECTIONS	15, 16,	21, 22					-							
P	BUCKEYE, SOUTH	GLADWIN	1956	TRAVERSE	2891	3 D	42.0	DETROIT RIVER	4802	7	ABANDONED	1960 -	DUCTION	PRODUCTION COMBINED WITH	TH BUCKEYE, SOUTH	TH DUNDER						
•			1936	DUNDEE	3570	11 L	39.0			197 0	1 0	%	1	20,504	646,446,4			2270	21.78	12	₹8*	29
•			1961	DETROIT RIVER SZ	14481	14 D	0.94			٥ ٦	0 0	1		9,015	60,115			9	1503			
		BUCKEYE TWP., 18N-1W, SECTIONS 22, 23,	, SECTION	18 22, 23, 24, 25, 26,	, 27, 35,	36; HAY	TWP., 18N	-1E, SECTION 33;	BILLINGS TWP.,	., 17N-1E,	s, SECTIONS	MS 4, 9, 10;	TOBACCO	WE-NTT . TWE	1W, SECTION 1							
•	BURDELL	OSCEOLA	1959	DUNDEE	3678	н 1		REED CITY	380t	2	0	æ						120		230	0	230
•			1960	REED CITY	3802	Q &				0	0	н	п	3,379	145,399			9	606			
		BURDELL TWP., 20N-10W	20N-10W, SECTION 19	N 19																		
	BUSHNELL	MONTCALM	1935	DUNDEE	3105	2 L	33.9	DUNDEE	3125	-	ABANDONED	1939			4,035			10	£01 ₁			
1		BUSHNELL TWP., 9N- 6W, SECTION 1	W, SECTIC	JN 1							\neg											
•	BUTMAN	GLADWIN	1950	TRAVERSE	2789	2 F		SYLVANIA	5027	п	ABANDONED	1953 -	RODUCTION	COMBINED W	PRODUCTION COMBINED WITH BUTMAN RICHFIELD	FIELD						
			1949	DUNDEE	3596	9 17	41.4			н	ABANDONED	1963 -	PRODUCTION	COMBINED WITH	ITH BUTMAN RICHFIELD	FIELD						
•			1949	RICHFIELD	4921	10 D	41.6			2	0	5		450,9	290,501			230	1263	30	г	31
3		BUTMAN TWF., 20N-1W, SECTION 1 (Traverse); BUTMAN TWF.,	SECTION	1 (Traverse); BUTMAN	TWP., 2	20N-1W, SECTIONS 11,	TIONS II,	12, 13, 14 (Dundee	& Richfield)	14)	\dashv		1									
	CAL-LEE	REFER TO ALBION-PULASKI-SCIPIO TREND	SKI-SCIPI	O TREND							\Box											
Ø	CANNON CREEK	MISSAUKEE-KALKASKA	1950	TRAVERSE	2692	11 12		RICHFIELD	4810	23	ABANDONED	1956					851,369	3360				
		NORWICH TWP., 24N-6W, SECTIONS 6, 7, 18; PIONEER TWP., 24N-7W, SECTIONS 1,	, SECTION	S 6, 7, 18; PIONEER	IMP., 24	N-7W, SECT	TIONS 1, 2	, 12, 13; GARFIELD	TWP., 25N-6W,	6w, SECTION		31; GARFIELD TWP., 25W-7W	25N-7W	SECTIONS 25	5, 36							
Ø	CAPAC	ST. CLAIR	1961	NIAGARAN	4505	6 D		MT. SIMON Sa	6337	75	ε.	64		1,617	4,014	3,956,996	10,303,095	9120		0	ş	9
		MUSSEX TWP., 7N-13E, SECTIONS 4, 5, 8,	SECTIONS	9, 16,	17, 18, 19,	20, 21,	28, 29, 32	, 33; LYNN TWP.,	8N-13E, SECTIONS	5,	27, 28,	29, 32, 33, 3	34		GAS RESE	GAS RESERVOIR PRODUCING	SMALL QUANTITIES	TES OF OIL	ت .			
•	CAREY LAKE	NEWAYGO	1,966	REED CITY	3411	2 0		REED CITY	3413	0	0	ĈI.		3,117	741,81			8	227	0	٦	-
		GOODWELL TWP., 14N-11W, SECTION 26	IW, SECTI	ON 26																		
•	CASCO	ALLEGAN-VAN BUREN	1940	TRAVERSE	1095	1.5 L	38.6	TRAVERSE	3115	6	ABANDONED	1959			17,382			50	348			
		CASCO TWP., IN-16W, SECTIONS 34, 35; GENEVA TWP., IS-16W, SECTION 4	SECTIONS	34, 35; GENEVA TWP.,	18-16W,	SECTION 4																
•	CAT CREEK	OSCEOLA	1968	DUNDED	3696	1		DUMDEE	3890	7	٥	4		740 , 74	240° 24			160	162	35	6	38
		HERSEY TWP., 17N.9W, SECTIONS 4, 10	SECTIONS	4, 10									7									
•	CATO	MONTCALM-MECOSTA	1944	REED CITY	3542	3 D	7.44	DETROIT RIVER	3731	19 2	٥	6	٦	20,991	941,331			610	1543	1715	*45	1760
		CATO TWP., L2N-8W, SECTIONS 3, 4, 6, 8,	ECTIONS 3	25	PIELD T	DEERFIELD TWP., 13N-9W, SECTION	W, SECTIO	N 36	_													
			\exists								_											

FIELD HAM CEDAR CREEK, CEDAR CREEK, CEDAR CREEK, CHEGRY GROVE	LD NAME	COUNTY YEAR TOWNSHIP OF	YEAR		L	3002				O D D N	10000	1		0000	0.000	ACM NOT TOUGOOD SAC	NO LEC.	_	H			
	LD NAME	TOWNSHIP		PRODUCING		PAY ZONE		DEEPEST FORMATION	N OEPTH	ž	יי כי	L or GAS	GAS WELLS		5	-	- NOT 101		RECO		BRINE PRODUCTION	TION.
		PRODUCING SECTIONS	OF DISC.	POOL	DEPTH 1N FEET	THICKNESS AND LITHOLOGY	OIL GRAVITY A.P.I.	POOL TESTED		5 g	4P. ABAND.	PRODUCING AT END	SHUT IN OR SHUT DOWN	PRODUCED IN 1968	CUMULATIVE THROUGH 1968	PRODUCED 1N 1968	CUMULATIVE THROUGH 1968		ACRES DRII	DRILLED DRILLED (BBLS.) SUBSUR	DISPOSAL SUBSURFACE SURFACE	TOTAL BBLS.
		OSCEOLA	1945	MICHIGAN SIRAY	1490	7 8		SYLVANIA	5165	2	0	77				1,266	П		800		0	0 0
			1943	DUNDER	3810	2 1	0.94			07	0	r-						-	001	18	1850	0 1850
			1945	RICHFIELD	9060	6 L.	144.7		_	ο ν	0	Ĉi.		14,471	1,078,843				60 23	2345	0	0
		CEDAR TWP., 18N-9W,	SECTION	CEDAR TWP., 18N-9N, SECTIONS 27, 28, 32, 33 (Michigan Stray); CEDAR	shigen Str	ray); CEDA	7 TWP., 18	TWP., 18N-9W, SECTIONS 10, 2	27, 28, 33,	₹.	(Dundee and F	and Richfield)								-		-
	CREEK	MUSKIBOON	1940	"BEREA"	11.25	7 D		DUNDEE	2252	1-	ABANDONED	0 1960					624	624,528	1120			
		CEDAR CREEK TWP., 11N-15W, SECTIONS 7,	1N-15W, E	SECTIONS 7, 17, 18, 1	17, 18, 19, 20, 32	č																
	CEDAR CREEK, SEC. 23	MUSKEGON	1949	TRAVERSE	1951	2		DUNDEE	2453	a	1 0	0		0	2,652	ABANDONED 1968	05 8961		53			
		CEDAR CREEK TWP., 11N-15W, SECTION 23	4 WEI-NI	SECTION 23																		
		LAKE	1943	"BEREA"	2460	t SL		DETROIT RIVER	3734	8	0	τ		154	7,827				3	391	0	0
		CHASE TWP., 17W-11W, SECTIONS 19, 29	, SECTION	WS 19, 29																		
1 1	CROVE	WEXFORD	1952	TRAVERSE	3145	Q t		DUNDEE	3998	н	ABANDONED	1953			4,814				77 07	181		
1		CHERRY GROVE TWP., 21N-10W,	PIN-10W,	SECTION 27																		
	CHERRY GROVE SEC. 13	WEXPORD	1957	MICHIGAN STRAY	1326	35 s		DUNDEE	0804	IV.	Q O	п	-			54,487		921,119	049		0	0
		CHERRY GROVE TWP., 21N-10W, SECTION 13;	PIN-10W,	SECTION 13; CLAM LA	CLAM LAKE TWP.,	21N-9W, SECTIONS	SCTIONS 7,	18														
CHESHITKE	TRE	ALLEGAN	1947	TRAVERSE	1289	ri Cu	35	TRAVERSE	1348		ABANDONED	1958			9,290				30	310		
		CHESHIRE TWP., IN-14W, SECTIONS 26, 27	W, SECT.	IONS 26, 27														-				
CHESTER	S	OTSEGO	1965	ANTRIM	1360	1 SH		NIAGARAN	6870	16 c	0	91	3			4,304		7,304 6	049		0	0
		CHESTER TWP., 29N-2W, SECTIONS 10, 11,	W, SECTIC	ONS 10, 11, 14, 15, 16	9																	
CHESTER,	MER, SEC. 15	OTSEGO	1951	SALINA	0199	5, D	41.0	NIACARAN	6870	-	ABANDONED	1956			2,752				04	69		
		CHESTER TWP., 29N-2W, SECTION 15	W, SECTIO	N 15					_													
CHESTERFIELD	RFIELD	MACOMB	1962	NIAGARAN	2508	J D	40.3	CLINTON	2707	7	0	٣		10,480	30,269		0 124	124,698	280 1	108	25	0 25
		CHESTERFIELD TWP., 3	3N-14E, 8	TWP., 3N-14E, SECTION 29					_		$\overline{}$											-
CHINA BELLE	BELLE	ST. CLAIR	1963	NIAGARAN	2365	15 D		NIAGARAN	2451	3	0	3		820	1,426	54,658		326,352	120	_	179	0 14
		CHINA TWP., 4N-16E, SECTIONS 34, 35	SECTIONS	3 34, 35							_			GAS RES	RESERVOIR PRODUCIN	PRODUCING SMALL QUANTITIES	TITES OF OIL	ī				
CHINA,	, SEC. 12	ST. CLAIR	1962	NIAGARAN	2509	11 D	39.1	CLINTON	2631	O OI	0	Q	Q	0	11,895		23	27,721	80	149		_
		CHINA TWP., 4N-16E, SECTION	SECTION	12																		
CHINA,	, SEC. 31	ST. CLAIR	1959	SALINA	ABANDO	ABANDONED IN 1964; PRODUCT	4; PRODUC	ION COMBINED WITH	COLLEGELVILLE	Ã	1962											
		CHINA TWP., 4N-16E, SECTION 31	SECTION	31							-									-		
CHITIN,	, soure	ST. CLAIR	1961	SALINA-NIAGARAN	2324	14 D		CLINTON	2743	F	0	5	17			3,561	_	523,443 4	01/1		0	0
		CHINA TWP., 4N-16E, SECTIONS 28, 33, 34;	SECTIONS		COTTRELLVILLE TO	TWP., 3N-16E,	SE, SECTIONS 3, 4	NS 3, 4			\neg							-	_		-	_
CHIPPEN	CHIPPEWA, SEC. 10	ISABELTA	1961	TRAVERSE	3193	1 L		TRAVERSE	3220	н	ABANDONED	1964			1,250		PRODUCTION	TION CARRIED	BD IN MT.	PLEASANT	FIELD TOTALS	
		CHIPPEMA TWP., 14N-3W, SECTION 10	W, SECTI	10N 10							_						-					
CLARE CITY	CITY	CLARE-ISABELLA	1937	MICHIGAN STRAY	1290	5 8		DUNDEE	3865	8	0	1		822	74,245		0 2,294,990		720 1	103 D	DOMESTIC USE	
		GRANT TWP., 17N-4W, SECTIONS 25, 26, 35, 36;	SECTIONS		RIDAN TWP	SHERIDAN TWP., 17N-3W,	SECTION	31; WISE TWP., 16N-3W,	W, SECTION	9 N								-				
CLARE CITY	СТЕЛ	CLARE-ISABELLA	1938	MICHIGAN STRAY	1303	2 3	30.2	DUNDEE	3853	7	0	-st	1					1	120		0	0
		GRANT TWP., 17N-4W, SECTIONS 24, 35, 36;	SECTIONS	, 24, 35, 36;	WISE IW	WISE TWP., 16N-3W,	, SECTION	9														
CLAYTON	NC	ARENAC	1936	BEREA	1180	10 8		SYLVANIA	4163	31.0	0	17	5			J	0 5,111,048		1560 DOME	DOMESTIC USE &	LEASE OPERATION	rion
		CLAYTON TWP., 20N-4E	s, secric	CLATTON TMP., 20N-4E, SECTIONS 4, 5, 8, 9, 10, 11, 14, 15	1, 14, 15														-		+	_
			1						\perp	\pm	7											+
									\parallel		-									-	_	_

L	100	POOL CLASSIFICATION	ACTIVI	ACTIVE OIL FIELD OR POOL	XOL	OL M ABANDONE	NED OIL FE	ELD OR POOL	ACT IVE G	GAS FIELD OR	LD OR P.	201 SOL	ABANDONED	GAS	OR P00L	GAS	STORAGE RESERVOIR	Œ	UNDEVELOPED		GAS STORAGE RESERVOIR	SERVOIR
<u>_</u>			L	PRODIICING	1	PAY ZONE	L	al E	L	ODOMIN	20 20	1 '	0 100 0	1 2	1 8	را	TOTAL MOLE	L			MOLTOHOOD BUILDE	3
-	FIELD NAME	PRODUCTING SECTIONS DISC	YEAR OF DISC.	FORMATION OR POOL	DEPTH N.	1 ' "	GRAVITY	POOL TESTED	DEPTH IN FEET		MP. ABAND		16 SHUT IN	PRODUCED	CUMULATIVE		CUMULATIVE	DRILLED	ED PER ACRE S DRILLED (BBLS.)	l a)SAL	TOTAL BBLS.
•	AT AVMON	ANDREAS COMMENTS	4_	700	1 7 5	רוושמרחפו		1		⊢	٦ -	1	100	ł	288	1968	1968	_	1	SUBSURL ACE		
•			1953	DETROIT RIVER	3507	77 O	45.9	STRANIA (FaT+	8	0	t-1	2					128		1343	17	1360
•			1	RICHPIELD	3790	1	+			2	0	5		47,192	6.244.796			8	4191	0	0	0
		CLAYTON TWP., 20N-4E, SECTIONS 3, 4, 5,	, SECTION	8 3, 4, 5, 8, 9, 10,	11, RIC	11; RICHLAND TWP.,	., 21N-4E,	SECTION 31; MILLS	TWP., 21N-3E,	R, SECT	SECTION 36	THE	10	NCLUDE 3 RIC	HFIELD, 1 SOUR	ZONE AND 1 DUAL	DUAL COMPLETION RI		& SOUR ZONE			
P	CLEAR LAKE	VAN BUREN	1950	TRAVERSE	1.380	1 L		TRAVERSE	1399	77	ABANDONED	195	L		17,490			1,40	125	_		L
		PINE GROVE TWP., 18-13W, SECTIONS 3,	13W, SECT.	IONS 3, 4, 9, 10									_						-			
P	CLINTON	Washtenaw	1953 T	TRAVERSE	986	2 D		TRENTON	3606	Cu.	ABANDONED	3D 1962			2,093			8	105			
		BRIDGEWATER TWP., 48-	TWP., 48-4E, SECTION 28	ION 28																		
P	COPFEE LAKE	VAN BUREN	1,946 T	TRAVERSE	1128	1 T		TRAVERSE	1130	=	ABANDONED	1954			34,649			011	315			
		COLUMBIA TWP., 18-15W, SECTIONS 17, 18	W, SECTION	NS 17, 18																		
Φ	COLDWATER	REFER TO TABLE 6 UND	DEVELOPED	6 UNDEVELOPED GAS STORAGE RESERVOIRS	IRS																	
•	COLDWATER	ISABELLA	1944	DUNDEE	3695	25 L	0.84	DETROIT RIVER	5090	81	0 1	52	15	103,471	21,608,597	0	6,311,307	3200	6752	29,627	٥	29,627
		COLDWATER TWP., 16N-6W, SECTIONS 19, 20, 21,	6w, SECTIC	8,	29, 30,	31, 32, 33,	3, 34; SH	34; SHERMAN TWP., 15N-6W, SI	SECTIONS 5,	9,												
P	COLDWATER, SOUTH	ISABELLA	1951 D	DUNDER	3739	Ω †		DUNDEE	3743	1	ABANDONED	n 1959			140,01			8	542			
		SHERMAN TWP., 15N-6W, SECTION 8	, SECTION	8																		
•	COLE LAKE	NEWAYGO	1968 T	TRAVERSE	2928	8 L		TRAVERSE	2938	П	0	1		1,425	1,425			8	7.	0	۰	٥
		BARTON TWP., 16N-11W, SECTION 30	, SECTION	30																		
\Diamond	COLFAX	MECOSTA	1945 M	MICHIGAN STRAY	1240	8		DETROIT RIVER	4043	.#	0	п				0	448, 284	049				
•			1964 D	DUNDEE	3503	25 L	0.54			6	ABANDONED	1967 C			2,260	٥	151,2	3	57			
\Diamond			1957 D	DUNDER-REED CITY	3474	Q 6				п	0	٦				0	5,121	160		DOMESTIC	C USE	
		COLFAX TWP., 15N-9W, SECTIONS 4, 5	SECTIONS	4, 5																		
\Diamond	COLLIN	ST. CLAIR	1968 s	SALINA-NIAGARAN	2196	Ω 4		NIAGARAN	2364	Q	0	Cu	cu	1,888	1,888	0	0	8	3	Lt _t		
		COUTRELLVILLE TWP., 3N-16E,	3N-16E, SE	SECTION 20																		
Ø	COLUMBUS	ST. CLAIR	1964 3.	SALINA-NIAGARAN	2738	190 D		CLINTON	3232	80	0	8		0	137	2,380,456	9,823,599	320		104	0	101
		COLUMBUS TWP., 5N-15E, SECTIONS 15, 16,	S, SECTION	48 15, 16, 21, 22							_						GAS RESER	GAS RESERVOIR PRODUCING		SMALL QUANTITIES	S OF OIL	
•	COLUMBUS, SEC. 3	ST. CLAIR	1968 N	NIAGARAN	3105	15 D		NIAGARAN	3250	1	0	-		٥	0			8		0	0	٥
ł		COLUMBUS TWP., 5N-15E, SECTION 3	s, SECTION	13																		
\$	COLUMBUS, SEC. 23	ST. CLAIR	1965 N	NIAGARAN	2900	76+ D		CLINTON	3122	9	0	9		2717 1	6,483	53,147	53,147	240	12	100	0	100
	7,000	COLUMBUS TWP., 5N-15E, SECTION 23	E, SECTION	1.23													GAS RESERVOIR		PRODUCING SMALL	ALL QUANTITIES	S OF OIL	
•	COLUMBUS, NORTH	connaus	1968 N	NIACARAN	3266	8		NIAGARAN	3326	٦	0	٦	4.000.000.000.000	1,350	1,350			&		٥	٥	٥
		COLUMBUS TWP., 5N-15E, SECTION 5	S, SECTION	5							_											
0	COLUMBUS, WEST	ST. CLAIR	1967 Su	SALINA-NIAGARAN	3183	D ++17		CLIMION	3370	13	0	13	н			5,052,747	5,052,747	520		59	0	53
		COLUMBUS TWP., SN-15E, SECTIONS 7, 17,	E, SECTION	187,17,18																		
e	COMSTOCK, SEC. 5	KALAMAZOO 1	1949	TRAVERSE	1430	3 L		TRAVERSE	1480	cu	ABANDONED	D 1952			4,1,6			8	64		_	
		COMSTOCK TWP. 28-10W, SECTION 5	SECTION	5																		
•	CONCORD	JACKSON	1953 TE	TRAVERSE	1627	1 r		SALINA	2417	25	ABANDONED	D 1958			6,437			50	129			
		CONCORD TWP., 38-3W, SECTIONS 35,	SECTIONS	35, 36																		
Ø	COON CREEK	MACCMB	1963 N	NIAGARAN	3034	20 D		NIAGARAN	3093	Q	1 0	٥	ABANDONED 1968	D 1968			34,461	8				
		LENOX TWP., 4N-14E, SECTION 18	ECTION 18																			
											_											

FIELD NAME COOPERSYTLLE COOPERS	6	YEAR 0F 1939 1939 1939 1939 1939 1939 1936 1936	YEAR PRODUCING DE	PTH -	PAY ZONE THICKNESS GRAVITY AND 5 D 5 D 6 D 38.7		DEEPEST FORMATION OR POOL TESTED TRAVERSE	DEPTH IN FEET 1900	H NUMBER OF OIL. TO COMP. ABAND. PR END IN IN 19 6 8	NUMBER OF OIL or GAS TO COMP. ABAND. PRODUCING END IN AT END 1968	OF GAS WELLS RODUCING SHUT I	WELLS 01	SHELLS OIL PRODUCTION - BE SHUT IN PRODUCED CUMULATI SHUT DOWN 1.568 1.568	ION - BBLS. CUMULATIVE THROUGH	GAS PRODUCTION PRODUCED CUM	CUMULATIVE THROUGH) BEI	RECOVERY ED PER ACRE S DRILLED (BBLS.)		BRINE PRODUCTION	TOTAL
	ä	1939 1939 1939 1961 1961 1962 1958 1958 1958 1958 1953 1953 1954 1954 1964 1964 1964 1964 1964 1969 1969	FORMATION OR POOL 'BEREAL' 31, COTTRELLVILLE TWP. SALTINA-NIAGARAN SECTIONS 6, 7, 8 AS STORAGE RESERVOIRS TRAVERSE DUNDES DUNDES DUNDES DUNDES DUNDES FROMFIELD TRAVERSE DUNDES DUNDES FROMFIELD TRAVERSE DUNDES DUNDES DUNDES FROMFIELD TRAVERSE DUNDES FROMFIELD TRAVERSE DUNDES FROMFIELD F	2862 2862 2863 33.20 33.20 33.20 8001 8001 8001 8001 8001 8001 8001 80	AKD AKD 1THOLOGY 5 D 6 D	OIL GRAVITY A.P.1.	R TESTED		TO COMP.	ABAND. PR	ODUCING SHI	z 3	*RODUCED IN 1968	CUMUL AT I VE THROUGH	PRODUCED	CUMULATIVE	T	PER ACRE DRILLED (BBLS.)		SAL	TOTAL
		1939 1961 1961 1962 1963 1969 1969 1969 1969 1969 1969 1969	"BEREA" 5 7, 19 SALINA-TIAGRAN 31; COTTRELIVILE TWP. SALINA-HIAGARAN SECTIONS 6, 7, 8 AS STORAGE RESERVOIRS TRAVERSE DUNDES PRICHTELD CTIONS 1, 2, 11, 12 TRAVERSE DUNDEE PRICHTELD CTIONS 1, 2, 11, 12 TRAVERSE DUNDEE RICHTELD CTIONS 1, 8, 11, 12 TRAVERSE DUNDEE RICHTELD CTIONS 1, 8, 11	2262 2262 2293 3120 3120 1601 1601 5048			TRAVERSE	1900	L		Shu			1968	1968	1962	_		SUBSURFACE	SURFACE	BBLS.
		1961 1999 1999 1999 1999 1999 1999 1999	S 7, 19 SALTMA-NIAGRAN 31; OCCURELLVILLE TWP. SALINA-NIAGRAN SECTIONS 6, 7, 8 AS STORAGE RESERVOINS TRAVENSE DUNDES DUNDES TRAVENSE TRAVENSE DUNDES TRAVENSE DUNDES TRAVENSE DUNDER RICHTELD CTHORE RICHTELD TRAVENSE DUNDER	2862 318-166, 2893 3120 3189 4801 5048	1 1				0	ABANDONED 1959	959	-				108,839	240				
		1961 1961 1959 1959 1943 1951 1951 1953 1953 1953 1953 1964 1964 1969 1969 1969 1969	SALDA-STAGARAN 31, COTTRELLVILLE TWP. SALTIM-WIAGARAN SACTIONS 6, 7, 8 AS STORAGE RESERVOIRS TRAUERSE DUNDES DEFROIT RIVER SZ FROHETELD TRAVERSE DUNDEE PROFIEED	2862 381-165 3835 3835 5048	i	-						-									
		1999 1999 1999 1999 1999 1999 1998 1998	SALINA-WITGARAN SALINA-WITGARAN SECTIONS 6, 7, 8 AS STORAGE RESERVOIRS TRAVERSE DUNDER DUNDER PRIVERED CYTONS 1, 2, 11, 12 TRAVERSE DUNDER NICHTELD STORBEL DUNDER RICHTELD STORBEL DUNDER RICHTELD STORBEL DUNDER RICHTELD	2293 3120 3120 14801 5048		38.7		2511		4	80	-	664,6	100,896			580	360	ж	0	3
		1999 IN-16E, 8 IN-16E, 8 ILOPED GA I			SEC	3 6, 7, 8;	IRA TWP., 3N-15E, SET	t SECTION 1,		NE SECTION 12		-									
		1958 1953 1953 1953 1953 1953 1953 1953 1953			37 D		CLINTON	2511	0	0	cu	-			180,336	1,695,267	540		10	0	og .
		1992 1943 1953 1951 1951 1964 1963 1964 1964 1949 1949															-				
		1943 1953 1953 1951 1964 1964 1964 1964 1964 1964 1964	28 52 111, 12																		
		1953 1951 1951 1964 1964 1964 1949 1949 1949	11, 12		7 L	39.0	RICHFIELD	5223	7 AB	ABANDONED :	1965 PRODUC	PRODUCTION COME	SINED WITH C	COMBINED WITH CHANBERRY LAKE, DUNDEE,		TRAVERSE, AND RICHPIELD	PIELD				
		1953 1964 1963 1964 1964 1949 1949	11, 12		S 13	42.8			8	0	3						2		007	٥	84
		1951 1-6w, sEC 1963 1964 1-5w, sEC 1949	RICHTELD CYONS 1, 2, 11, 12 TRAVERSE DUNDER RICHTELD CYTONS 7, 8, 17		97	48.8			1 AB	ABANDOWED 19	1962 PRODUCTION		COMBINED WITH C	CRANBERRY LAKE,	DUNDEE,	TRAVERSE, AND RIC	RICHFIELD				
		1963 1963 1964 1949 1949	TRAVERSE DUNDEE RICHFIELD RICHFIELD TYPESTELD TYPESTELD TYPESTELD		15 D	51.0			17 0	0	12	п.	35,812	1,441,868			680	1922	52	-	59
		1963 1964 1964 1949 1949	TRAVERSE DUNDEE RICHFIELD ECTIONS 7. 8. 17	1																	
	SUDMERFIELD TVP., 20M ALLEDAM CLYDE TAP., 2H-15W, S REFER TO TABLE 5 DEVE	1964 1964 1-5W, SEC 1949	DUNDEE RICHFIELD COTTONS 7. 8, 17	3057	9	39.8	DETROIT RIVER	5139	1 AB	ABANDONED 1	1961			588		PRODUCTION	ON COMBINED	WETH	DUNDER AND RICHFIELD	HFIELD	
	SUMMERFIELD TUP., 20N ALLEGAN CLYDE TWP., 2N-15W, 8 REFER TO DABLE 5 DEFT NEWAYGO	1964 1-5W, SEC 1949 SECTION (RICHFIELD	3760	9	43.5			0 4	0	-3						200		949	٥	949
	SUMMERTELD TVP., 20M ALLEGAN CLYDE TVP., 24-15W, S REFER TO TABLE 5 DEVT WEMAYGO	1949 1949 SECTION (CTTONS 7. 8, 17	5087	12 D	0.44			0	0	cu		79,134	424,956			&	1518	[‡] / ₂	٥	†₹
	ALLEGAN CLYDE TAPP., 2H-15W, S REPER TO TABLE 5 DEVE WEWAYGO	1949 SECTION	- 62 61 AUGUSTES						_				2 RICHFIELD	D WELLS INCLUDES 1	ES 1 DUNDEE &	RICHFIELD DUAL	I COMPLETION	ION			
	CINDE TWP., ZN-15W, S REFER TO TABLE 5 DEFE	SCTION S	TRAVERSE	1278	7 T		TRAVERSE	1312	2 AB	ABANDONED 3	1,956			115,452			94	2886			
	REFER TO TABLE 5 DEVE NEWAYGO		25									-									
	NEWAYGO	LOPED G4	REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS	1					_			\dashv									
		1951	TRAVERSE	2543	2 1		SALINA	3993	10 AB	ABANDOWED 1	1958			91,678			88	458			
	CROTON TWP., L2M-11W, SECTIONS 20,	SECTION	WS 20, 29	-					\dashv												
	BAY	1950	DUNDEE	3294	7 I		DUNDEE	3354	1 AB	ABANDONED 1	1951			1,043			q	104			
	CARFIELD TWP., 16N-3E, SECTION 23	s, section	ON 23					1													
CRYSTAL	MONICALM	1954	TRAVERSE	2769	7	41.8	DETROIT RIVER	3391	0	0	1	-					8		330	٥	330
		1935	DUNDER	3187	Ω	43.5			193 0	0	7	н	8,860	7,780,580			5000	3851	1085	٥	1085
	CRYSTAL TWP., 10N-5W, SECTIONS 1, 2, 3,	SECTION	, II, OI, 4	12, 13;	FERRIS	TWP., 11N-5	-5W, SECTIONS 26, 34,	35, 36													
CRYSTAL VALLEY	OCEANA	1945	TRAVERSE	1809	3 E	37.0	ST. PETER Ss	6062	5	0	1						50		175	0	175
		1957	DUNDEE	2575	12 D	42.5			19 0	٥	п	П	131	203,747	٥	162,079	rt-20	1641			
	CRYSTAL TWP., 16N-16W, SECTIONS 9, 10,	', SECTIC	11, 14, 15,	91												:					
CRYSTAL VALLEY	OCEANA	1,946	DUNDEE	2400	7 L		TREMTON-BLACK RIVER	5985	1, AB	ABANDONED 1	1966					*162,079	160				
\.		1961	SALINA	4102	10 D				1 AB	ABANDONED 1	1966					*PRODUCTION COMBINED	017				
	CRYSTAL TWP., 16N-16W, SECTIONS 9, 10,	', SECTIC	11, 14, 15,	97																	
CURRIE	ISABELLA	1936	DUNDER	3918	Q 2	45.9	DUNDEE	tota 2	0 8	0	5		1,026	200,922			140	5023	0	0	٥
	VERNON TWP., 16N-4W,	SECTIONS 5, 8	8 5, 8																		
DAILAS	CLINTON	1942	TRAVERSE	2482	2 I		DETROIT RIVER	2934	3 AB	ABANDONED 1	1948			3,085			0†	770			
	DALLAS TWP., 7N-4W, SECTION 21	SECTION 2	21						_												
DALITON	MUSKEGON	1940	TRAVERSE	1851	2 L	0.04	DUNDEE	2515	0 91.	0	9		169	106,924			300	356	0	п	г
	DALFON TWP., 11N-16W, SECTIONS 10, 11,	SECTION.	MS 10, 11, 15									_									
Dav.	MONTGALM	1934	MICHICAN STRAY	1352	ω . 1		MARSHALL	1395	2 AB	ABANDONED 1	1944					464,48	8				
	DAY TWP., 11N-6W, SECTION 1;	TION 1;	HOME TWP., 12N-6W, SECTION	SECTION 3	36																

L	P001 C17	POOL CLASSIFICATION	ACT	ACTIVE OIL FIELD OR POOL	وَ ا	POOL SABANDON	9		FIELD OR POOL TO ACTIVE	ACT IVE G	AS F I E	GAS FIELD OR POOL	7007	ABANDONED	ED GAS FIEL	ABANDONED GAS FIELD OR POOL	GAS	STORAGE RESERVOIR	E C	UNDEVEL	OPED GAS	UNDEVELOPED GAS STORAGE RESERVOIR	RESERVO	a.
		_		PRODUCING		PAY ZONE	NE.				-	NIMBER OF	011 or 64	GAS WELLS	.10	8	GAS	GAS PRODUCTION - Mcf	Γ.	10000	B ven	BRINE PRODUCTION	UCTION	Т
>	FIELD NAME	COUNTY TEAM TOWNSHIP OF PRODUCING SECTIONS DISC	OF OF DISC.	FORMATION OR POOL	DEPTH IN FEET		SS 01L GRAVITY GY A.P.I.		OR POOL TESTED	PEET FEET		DMP. ABAND.	ND. PRODUCII	TO COMP. ABAND. PRODUCING SHUT IN IN IN AT END OR OR 1.968 SHUT DOWN		CUMULATIVE THROUGH 1968	+	CUMULATIVE THROUGH 1,968	IVE DRILLED	LED PER ACRE ES ORILLED (BBLS.)	SU8	DISPOSAL SUBSURFACE SURFACE	TOTAL BBLS. FACE DAY	AY.
9	DAY	MONTCALM	1946	TRAVERSE	2900	OJ O	T. #3	h3.0	DUNDEE	3387	н с	ABANDO	ABANDONED 1967			050 71				à à	0.63	-		
		DAY TWP., 11N-6W, SEC	CTION 25	se); DAY	, my	6W, SECTI) 9E NO.	(Dundee)			v	YOUNG WOUND	+ 1257			603 for				<u> </u>	2			7
\Diamond	DEEP RIVER	ARENAC	1936		1490	30	s	-	SYLVANIA	1154	12	0	8	н				0 1,609,812	\vdash	1520		DOMESTIC USE	Eq	
		DEEP RIVER TWP., 19N-4E, SECTIONS 7,	-4E, SEK	CTIONS 7, 8, 16, 17, 18, 20	3, 20																			
•	DEEP RIVER	ARENAC	1,944	DUNDEE	27.95	145	D 35	35.8	RICHFIELD	4258	901	0	143	17	79,897	7 26,253,431			Ol	1060 24767		7485	17	7485
•			1953	RICHETELD	(cons	(CONSOLIDATED WITH STERL	WITH ST	8	DETROIT RIVER-RICHFELD	ă	1954)		THE	41 WELLS	INCLUDE 40 DUNDEE	ODEE AND 1 TRAVERSE	RSE							
		DEEP RIVER TWP., 19N-	HE, SEC	DEEP RIVER TWP., 19N-45, SECTIONS 6, 7, 8, 9, 14, 15, 16, 23, 24	15, 16	, 23, 24	_																	
•	DEFRFIELD	MONROE	1920	TRENTON	2115	10	T 42	42.7	CAMBRIAN	3250	1,7	0	8	122	3,701	106,475			*	450 1570	02	* -	*30	뙶
		DUNDER TWP., 68-6E, 8	SECTIONS	SECTIONS 19, 29, 30; SUMMERF	TELD TW	SUMMERFIELD TWP., 68-6E,	s, secrion	TON 31												_				
Q	DEMINGS LAKE	LENAWEE	1968	TRAVERSE	73‡		н		TRAVERSE	741	н	0	٦	н				0	0	9	-			7
		DOVER TWF., 78-2E, SE	SECTION 27	27			\dashv					-								-	-			
	DENNISON	OTTAWA	1963	TRAVERSE	1874	4	г 38	38.0	SALINA	3202	15	0	6		7,426	310,553			m	300 1035	35	25	٥	33
-		POLKTON TWP., 8N-14W, SECTIONS 21, 27,	, SECTION	ONS 21, 27, 28			\dashv	+				\dashv												
Ø	DIAMOND CRYSTAL SALT	E ST. CLAIR	1927	NIAGARAN	2483	17	А		NIAGARAN	2500	-	ABANDONED	NED 1931					136,445	145	04				
		ST. CLAIR TWP., 5N-17E, SECTION 31	TE, SEC	TION 31			-	\dashv				-								-		-		\neg
•	DIAMOND SFRINGS	ALLEGAN	1938	TRAVERSE	1461	m	1 tr	41.0	SALINA	2651	26	0	80		3,343	1,002,561			#	4.20 2387	4	157	-	158
			1958	SALINA-E ZONE	2389	ដ	Д	-	7		ы	0	8		3,014	+ 52,665			1	30 1755	55	۰ ا	*150	150
		OVERISEL TWP., 4N-14W	W, SECT.	OVERISEL TWP., 4N-14W, SECTION 36; SALEM TWP., 4N-13W, SECTION	(-13W,	SECTION 3	31, HEATH	TWP	., 3N-14W, SECTION 1;	MONTEREY	EY TWP.	TWP., 3N-13W,	SECTION	9							-			\neg
•	DORR	ALLEGAN	1938	TRAVERSE	1617	4	T# 17	41.0	NIAGARAN	3319	14	0	7		1,423	417,757			-	410 1019	19	0	13	73
			1955	DETROIT RIVER	2082	9	38	38.0			77.	0	4		1,291	71,505			- Cu	280	255	18	9	त्तं
•			1956	SALINA	2922	F-	D 17.0	0.			18	0	12		7,048	3 287,399	1,7,480	0 1,097,498	_	540	532	45	7,	29
		DORR TWP., 4N-12W, SECTIONS 19, 29,	ECTIONS	19, 29, 30, 31, 32, 33;		SALEM TWP.,	4N-13W,	4N-13W, SECTION 25	Y 25		_	\dashv												
\Diamond	DORR	ALLEGAM	1957	DETROIT RIVER	1918	٦	А	-	NIAGARAN	3319	н	0	п	п				0	1,710	160	-			
		DORR TWP., 4N-12W, SE	SECTION 3	33			-	-				\dashv								-	-			
Ø	DORR, SEC. 17	ALLEGAN	1951	"BEREA"	953	80	А	5.7	TRAVERSE	1642	п	ABANDONED	NED 1967						0	04				
		DORR TWP., 4N-12W, SE	SECTION 17	17			-					\dashv									-			_
\Diamond	DORR, SEC. 21	ALLEGAN	1940	"BEREA"	957	-	А		TRAVERSE	1687	п	0	-	_				0	0	04	+	DOMESTIC UE	USE	
		DORR TWF., 4N-12W, SE	SECTION 21	21			1	+				\dashv		\downarrow					-		-			\top
•	DOUGLASS	MONECALM	1945	1945 DUNDEE	3400	CJ CJ	T 47	17.7	DUNDEE	3458	9	0	-		1,039	9 246,062				120 2051		175	0	175
		DOUGLASS TWP., 11N-7W, SECTION 1	W, SECT	TOW 1			-	\dashv				\dashv		_							-			7
Ø	DOUGLASS	MONTCALM	1943	MICHIGAN STRAY	1190	'n	102	-	DUNDEE	3423	.7	ABANDONED	NED 1951					184,806	_	049				
		DOUGLASS TWP., 11N-7W, SECTIONS 27	W, SECTI	TONS 27, 28			-	-				-								-				
•	DOUGLASS, SEC. 3	MONTCALM	1954	TRAVERSE	3025	80	13		DUNDEE	3666	-	ABANDONED	NED 1956			3,155				20	158			
		DOUGLASS TWP., 11N-7W, SECTION 3	W, SECTI	ION 3			-	-				1								_				
•	DUNNINGVILLE	ALLEGAN	1950	TRAVERSE	1435	8	1 38	38.0	TRAVERSE	1438	5	0	٦		1,93	3 118,970				50 23	2379	04	0	9
		HEATH TWP., 3N-14W, S	SECTIONS	s 22, 27, 33			-	-				-	_							-				
•	DWIGHT	HURON	1945	DETROIT RIVER	2862	4	36	36.2	SYLVANIA	3290	п	0	г.		1,215	5 39,393				9	큟	2	0	(V
		DWICHT TWP., 18N-13E, SECTION 21	, SECTIC	ON 21			-	1											-					
								-				\dashv						4						

Charles Color Co						TABLE	7	4	AICHIGAN AICHIGAN	3	¥	\mathbf{g}		분	2		0			(
The control of the	Ľ	P001 CLA	ASSIFICATION (YC.	TIVE OIL FIELD OR PO	ا ر	ABANDO	VED OIL	FIELD OR POOL OF	I VE	AS FIE	LD OR P		ONABA	ONED GAS	IELD OR	H	SAS STORAGE	RESERVOIR		4DEVEL OP	ED GAS STO	RAGE ME	SERVOIR
Continue		FIELD NAME	COUNTY TOWNSHIP PRODUCING SECTIONS	YEAR OF DISC.		DEPTH IN FEET		OIL GRAVITI A.P.1.				MP. ABAN	O AT E	AS WELL	z ₹	RODUCTION		PRODUCED IN 1968	TION - Mcf. CUMULATIVE THROUGH 1968	$\overline{}$	RECOVER PER ACR DRILLET (BBLS.	Sus	PRCDUC SAL SURFAC	
Second Column Second Colum		EAST NORWICH	MISSAUKEE -ROSCOMMON	1942		2410		_	BASS	5520	н н	ABANDON	3D 1944 P	RODUCTIO	N COMBINED IN	WITH RAST N	DRWICH RICHE	TELD						
State Contact Contac				1,942		4390		_			_	20	12	-	537	484	,827,350	321,719	4,965,622	\vdash	Ш			
Statistication Statistic			NORWICH TWP., 24N-5W	, SECT	MION 16 (Traverse), SEC.	14 (Dun	dee); LYO	TWE.	9		field)		THE.	7	S INCLUDE 6	RICHFIELD	AND 9 SOUR	SOME & 1 RICH	TELED & SOUR	ZONE				
This continue			NORWICH TWP., 24N-5W	, SECT	IIONS 1, 2, 3, 9, 10, 11	, 12, 13	3, 14, 15,	16, 21,	22, (Richfield)															
This continue This continu			MASON	1948	$\sqcup \sqcup$	1679	ĺĺ	-	CAMBRIAN	7249	$\overline{}$		2	4						8		7		7
Second	$\overset{\sim}{\sim}$			1958		1960	İ						-	-				٥	٥	_			-	-
Second				1,948		2240		_		_		\dashv	58	1.5						38		1024		1024
Resport Control Cont				1948	J	2345	-				-	\dashv	CI.	٦			907,729	0	275,801		_	6	٥	e
Second continue 1961 Second continue 1				SECTION	NN 26 (Traverse Gas) SEC	TIONS 25	%		erse, Dundee,	y 011 Cor		Above	'Igures)											
This county is not a control of the county is	•	L	MIDLAND	1938	. 1	3790				3962			7			_	1,364,038			370	_	10	0	q
Statistical containts			EDENVILLE TWP.,16N-1	IW, SEC	%							-		_										
Second Continue	Ö	EDENVILLE, SEC.	MIDLAND	1956		382			DUNDER	4028	\dashv		ο	CUI				٥	٥	-				
Second continue Co			EDENVILLE TWP., 16N-	-1W, SE	SCTION 5																			
The continue of the continue	•	EDMORE	MONTCAIM	1933		31.02			DUNDEE	3613	Н	-	30				1,336,947	0	1,094,960	_	_	765	°	765
Section Sect			HOME TWP., 12N-6W, S	SECTION																_				
Company Comp	(1)	L	REFER TO TABLE 6 UND	DEVELOP	PED GAS STORAGE RESERVOI	RS						_		_						_				
Secretary Secr	•	EDWARDS	OGEMAW	1951		3362			SYLVANIA-BOIS BLAN			\dashv	3			264,6	24,812			8		625		_
State Stat			EDWARDS TWP., 21N-1E	E, SECT	rion 15		`			_		\dashv												
Expansion Office of the control of	\Diamond		MUSKEGON	1951		1120		_	DUNDES	2282	۲-	ABANDON	ED 1966						291,097	_				
Examination 1967 1974			TWP.,	15W, SB	SCTIONS 3, 4, 9, 10, 15							-				_							_	
Emailton Communication C	\$		GRATIOT	1928		670			DUNDEDE	3044	10	ABANDON	ED 1957						350,945	_				_
Example Colsian 1,501 Annexis 2 1 1 1 1 1 1 1 1 1	•			1927		2440					8	ABANDON			_		42,925			8				
Exementation Coloraba 150, Exemination 15			ELBA TWP., 9N-1W, SE	ECTIONS	3 9, 14, 15, 16 (Michiga	n Stray)		9N-	SECTIONS 14, 15,															
Exercise Table T	•	ELBRIDGE	OCEANA	1961		2112			REED CITY	2725	\dashv		1			,752	414,945			380	_	1,408	°	-
Exercise Table T				16W, SB	%					_		_												
EMERGE TRECLA 1345 DECRETOR 31, MONTEROL TOP, 1, 134-11E, SECTION 5 TO BE 10. 13. SECTION 5 TO BE 10.			TUSCOLA	1946		2653			SYLVANIA	3735	cu	ABANDON					3,546			×				
ENGINE TO THE PROOF THE PARTICLE IN TABLE 1914 DENICISE AND THE PARTICLE IN TABLE 1914			ELKLAND TWP., 14N-11	IE, SEC	-	., 13N-1	ULE, SECTI					-												
Emble Standood Thee, 1Mt-1.06, SECTIONE 17, 20, 21 Standood Thee, 1Mt-1.06, SECTIONE 17, 20, 21 STANDOOD THE, 1Mt-1.06, SECTIONE 17, 20, 21 STANDOOD THE, 1Mt-1.06, SECTIONE 17, 20, 21 STANDOOD THE, 1Mt-1.06, SECTIONE 17, 20, 214 STANDOOD THE, 1Mt-1.06, SECTIONE 21, 20, 214 STANDOOD THE, 1Mt-1.06, SECTIONE 21, 21, 214 STANDOOD THE, 2Mt-1.06, SECTIONE 21, 21, 214 STANDOOD THE, 2Mt-1.06, SECTIONE 21, 2Mt-1.06, SEC	•	ELMWOOD	TUSCOLA	1.945	1 1	2740		ļ	BOIS	3945	\dashv	\dashv	7	-		680,4	72,071			8		33	°	
Figure 1967 Standard 1964 Marked Holl 1964 186			EIMWOOD TWP., 14W-10	OE, SEC	8,																			
Septembre Sept	\Diamond		NEWAYGO	1958		826			DETROIT RIVER	3018		\dashv	80	8				0	906,626			MAY CONVE	RT TO ST	RAGE
ENCRETE TOP., 11N-11N, SECTIONS 6, 7, 8, 17, 18 (National 1); SECTIONS 6, 7, 8 (Trueverse) NIBSANGER-ROCCOMMON 1943 RICHIELD NIBSANGER-ROCCOMMON 1944 RICH	•			1954		2439					9	ABANDON		_			70,415			13				_
NUMBER N			ENSIEY TWP., 11N-11W	W, SECT	FIONS 6, 7, 8, 17, 18 (N	arshall)	; ENSIEY	WP., 11			3e)													
ENTERFIEED TWP, 23N -5N, 5EN-TIONE 10, 11, 12, 13, 14, 14d -		ENTERPRISE	MISSAUKEE-ROSCOMMON	_	i	4405				4625			8			7494	2,157,063	911.€0#				%		
NUMBER 1967 NUMBER			ENTERPRISE TWP., 23N	N-5W, S	SECTIONS 10, 11, 12, 13,	14;	LAKE TWP																	_
ENTERIGNE MONTOLIAN 1366 TRANSFER SECTION 1 20 1 0 1 0 0 1 1,559 3,710 4 6 600 0 1 DOUGLESS TWP., 118-74, SECTION 21 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 2 2 2 2	Ø	ENTERPRISE, SEC.	-	1953	\Box	1986			DETROIT RIVER	1,200	-		2	-1				٥		_		DOMESTIC	USE	_
EMPRICAN MONTOALM 1966 TRANTEGE 2870 4 L DUNDER 1968 1 0 1 0 ABANDONED 1968 9 1,710 4 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			ENTERPRISE TWP., 23N	N-5W, S	ļ			t MOLLOS				_		_						_			_	
DOUGLIGES TWP., 1131-TW, SECTION 21 157 DOUGLIGES TWP., 1131-TW, SECTION 21 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 0 0 0 0			MONTCALM	1966		2870			DUNDER	34.96		-	0	ABAN	DONED 1968					4	0			
OIL AND GAS FIELD				1967		3312				_		\dashv	7			665,1	3,710			#			_	_
OIL AND GAS FIELD			DOUGLASS TWP., 11N-7	TW, SEC	STION 21																		_	
																		ō	Z		;AS	正	DS.	

L	P00L CI	- POOL CLASSIFICATION	ACTIVE OIL FIELD OR	P001	ABAND	ONED DIL	ABANDONED OIL FIELD OR POOL TATIVE GAS FIELD OR POOL	ACTIVE	GAS FI.	ELD OR	7001 7001		ABANDONED GAS FIELD OR POOL	OR POOL (1	GAS STORAGE RESERVOIR	S O	DEVELO	UNDEVELOPED GAS STORAGE RESERVOIR	STORAGE R	ESERVO	<u>~</u>
		YIMIN	YEAR PRODUCING		PAY ZONE	NE.	DEEPEST FORMATION	N DEPTH	NON T	NUMBER OF	۱ ا		OIL PRODUK	OIL PRODUCTION - BBLS.	GAS PRODUCTION	TION - Mcf.	1	RECOVER	RY BRI	BRINE PRODUCTION	NOTE	T
_	FIELD NAME	PRODUCING SECTIONS DISC.		DEPTH IN FEET	H THICKNESS AND LITHOLOGY	S OIL GRAVITY Y A.P.I.	POOL TESTED	FEET	2 E	COMP. ABAND.	ND. PRODUCING AT END 6 8	ING SHUT IN D OR SHUT DOWN	PRODUCED IN 1968	CUMULATIVE THROUGH	PRODUCED IN	CUMULATIVE THROUGH	ACRES	PER ACRE DRILLED (BBLS.)	SUBS	DISPOSAL URFACE SURFACE	TOTAL BBLS.	4.S. X
•	ESSEXVILLE	BAX	1944 DUNDEE	2835	5 17 I	L 35.3	SYLVANIA	4130	50	0	14		1	L"	0	3,267	1730	1873	+-	$\overline{}$		011
		HAMPTON TWP., 14N-6E	HAMPTON TWP., 14N-6E, SECTIONS 7, 8, 9, 15, 16,	17, 18;		HAMPTON TWP., 14N-5E,	-5E, SECTION 12														-	1
•	EVART	OGCEOLA	1942 DUNDEE	3755	9	L 46.3	SYLVANIA	5292	53	0	. m		5,535	3,806,662			1100	3461	1 650		0	650
		OSCEOLA TWP., 18N-8W, SECTIONS 21,	22, 23, 25,	26, 27, 28	28			_			_	_									<u> </u>	
Φ	EVART	REFER TO TABLE 6 UND.	REFER TO TABLE 6 UNDEVELOPED GAS STORAGE RESERVOINS	OIRS				_													-	_
•	EXCELSIOR	KAIKASKA	1950 TRAVERSE	2003	હ	L 33.4	TRAVERSE	2136	н	0	-		281	10,455			101	1045		0		0
		EXCELSIOR TWP., 27N-6W, SECTION 11	6W, SECTION 11			_													_			<u> </u>
\Diamond	FALMOUTH	MISSAUKEE	1962 MICHIGAN STRAY	1279	е	υ υ	REED CITY	4035	8	0	3				176,994	1,059,797	1280				-	
		AETNA TWP., 22N-6W,	AETHA TWP., 22N-64, SECTIONS 30, 31; REEDER TWP.,	P., 22N-TW,	.TW, SECTIONS	NS 25, 36																Γ
•	FERRY	OCEANA	1,960 TRAVERSE	1949	Qį	L 41.0	REED CITY	2581	77	0	≉	.#	0	164,263			280	587		-	-	1
		FERRY TWP., 14N-16W,	SECTIONS 16, 20, 21							_		_										_
¢	FERRY, SEC. 25	OCEANA	1961 "BEREA"	1310	2	А	REED CITY	2650	٦	0	٦	-1			0	0	3				-	T
		FERRY TWP., 14N-16W,	SECTION 25							-											-	Τ
•	FILLMORE	ALLEGAN-OTTAWA	1940 TRAVERSE	1516	2.7	1.1.1	NIAGARAN	3045	63	0	7	_	3,861	962,825			770	1250	t		Q,	8
Ø			1959 SALINA A-2 CARB.	2632	J. P.				7	0					1,037,729	2.428.520	1500	<u> </u>			-	1
\Diamond			1959 SALINA A-1 CARB.	2792	16	~ ^ a			PRODI	CTION CC	TW CHEINED WI	PRODUCTION COMBINED WITH SALINA A2	ABOVE				7600				-	T
		FILLMORE TWP., 4N-151	FILLMORE TWP., 4N-15W, SECTIONS 2, 3, 11, 12; HOLLAND TWP., 5N-15W,	OLLAND TV	WP., 5N-15W	, SECTIONS	48 22, 34, 35 (Traverse		TILLMORE	TWP., SE	SCTIONS 2,	O11); FILLMORE TWP., SECTIONS 2, 3; AND HOLLAND TWP.,		SECTIONS 34, 35 (Sa	(Salina Gas)						-	Т
P	FOREST RIVER	OCEANA	1965 TRAVERSE	1954	n r		DUNDEE	2598	7	ABANDONED	NED 1965			199			04	17				_
		COLFAX TWP., 16N-15W,	16N-15W, SECTION 12					_													_	Γ
	FORK	MECOSTA	1942 DUNDEE	3845	3	0.64	BOIS BLANC	5894	† ₉	0	e e		2,192	7,777,026			2700	2880	0791	0	-	1650
			1945 RICHFIELD	5001	TI D	54.8			н	ABANDOR	ABANDONED 1966	PRODUCTI	ON COMBINED WI	PRODUCTION COMBINED WITH FORK DUNDER	٥	854,415		_			-	_
		FORK TWP., 16N-TW, SE	SECTIONS 4, 5, 6, 7, 8, 16,	18; сить	CHIPPEWA TWP.,	TWP., 16N-8W,	SECTIONS 1, 12															_
Ø	FORK, EAST	MECOSTA	1942 MICHIGAN STRAY	1,480	5		DUNDEE	3865	17	ABANDONED	NED 1.946					102,708	049					
		FORK TWP., 16N-TW, SE	SECTIONS 2, 11																			-
\Diamond	FORK, NORTH	OSCEOLA	1956 MICHIGAN STRAY	1433	19 8		DUNDEE	3982	н	0	п				0	60,178	160		DOMESTIC	C USE		
•			1991 DUNDER	3788	3 D	45.8			9	0	н	1	0	153,661			120			-	-	1
-		ORIENT TWP., 17N-TW,	ORIENT TWP., 17N-TW, SECTION 33 (Michigan Stray) SECTIONS 28, 33 (Dundee)	SECTION (NS 28, 33 (Dundee)		_														_
\rightarrow	FORK, WEST	MECOSTA	1943 MICHIGAN STRAY	1,490	S S		SYLVANIA	5198	17	0	Ci				0	2,405,559	2880	DOM	DOMESTIC USE &	LEASE FUEL		
		FORK TWP., 16N-TW, SE	SECTIONS 5, 6, 7, 8, 16; CHIPPEMA TWP., 16N-8M, SECTIONS	PPEWA TWI	P., 16N-8W,	SECTIONS	1, 2; EVART TWP., 12N-8W, SECTIONS	4-8W, SEC	TIONS 35,	3, 36											_	Γ-
\$	FORWARD	MISSAUKEE	1961 MICHIGAN STRAY	1393	7 8		DETROIT RIVER	5225	9	0	m				30,749	611,744	98					_
		RIVERSIDE TWP., 21N-7	TWP., 21N-TW, SECTIONS 25, 26; CLAM UNION TWP., 21N-6W,	TATE NOTE.		SECTION 31	e.															Ι
\Diamond	FOUR CORNERS	ST. CLAIR	1966 SALINA-NIAGARAN	2205	212 D		CLIMION	2638	2	0	C)				186,283	327,126	8				_	
		CASCO TWP., 4W-15E, S	CASCO TWP., 4M-15E, SECTION 36; IRA TWP., 3N-15E,	E, SECTION 1	T MC																	
Φ	FOWLERVILLE	LIVINGSTON	1961 SALINA-NIAGARAN	3880	45 D		PRAIRIE DU CHIEN	5685	Q	0	CI	N.					320		SHUT	Ā		_
		HANDY TWP., 3N-3E, SE	SECTIONS 1, 2																	_	-	
P	FREEDOM	WASHTENAW	1954 TRENTON	3963	20 D	43.5	CAMBRO-ORDOVICIAN	1691	7	ABANDON	ABANDONED 1956			7,217			04	1.80				1
		FREEDOM TWP., 38-45, SECTION 8	SECTION 8							H									-		_	$\overline{}$
Ф	FREEMAN-LINCOLN	REFER TO TABLE 5 DEVE	REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS	S																		Т
•	FREEMAN-REDDING	CLARE	1938 DUNDER	3885	19 L	ተ ተተ	SYLVANIA	5462	170	0	19	7	30,823	16,526,706			2800	5905	4065	*18	14083	T &
		REDDING TWP., 19N-6W, SECTIONS 27, 28, 29,	SECTIONS 27, 28, 29, 32,	33, 34;	32, 33, 34; FREEMAN TWP., 18N-6W,	P., 18N-6	W. SECTIONS 3. 4	_													+	Т

FIELD NAME COLNTY OF PRESENCE 1048 0.0F PRESENCE 1.05 0.0 0.0F PRESENCE 1.05 0.0C 0.0C 0.0C 0.0C 0.0C 0.0C 0.0C 0	<u>}</u>	PRODUCTING	_	PAY ZONE			-												
SEC. 15	B	FORMATION		1.01		DEEPEST FORMATION	N OF O		NUMBER OF OIL	or GAS WELLS	OIL PRODUCTION	UCTION - B	- BBLS, GAS F	GAS PRODUCTION - Mcf		_~	ECOVERY	BRINE PRODUCTION	DDUCTIO
SEC. 15	1963 SECTIO	POOL	DEP TH IN FEET	THICKNESS AND LITHOLOGY	OIL GRAVITY A.P.I.	OR POOL TESTED			. ABAND. P	AT		CUMULATIVE THROUGH 1968	-	PRODUCED CL		DRILLED P	PER ACRE DRILLED (BBLS.)	DISPOSAL SUBSURFACE SURFACE	TOTAL BBLS.
385. 332	OTTOWN STORY	DUNDEE	3894	8 L	0.14	DUNDEE	3902	-	ABANDONED 1965	1965			736			04	18		
SEC. 32	1941	MICHIGAN STRAY	1235	5 3		DUNDEE	3556	- L	ABANDONED 1956	926					381,330	800			\dagger
SEC - 32	+-	DUNDEE	3696			DUNDEE	3700	╀	ABANDONED 1956	9261			3,045			8	1.02		1
8EO. 32	N-5W, SECTIO	21, 22, 27,	3 (Michiga	28 (Michigan Stray);	FREMONT	TWP., SECTIONS 5, 8 ((Dundee)												
	1958	MICHIGAN STRAY	1364	9			3619	0	0	1				2,036	24,286	160			
	1957	TRAVERSE	3058	cu cu				г Ч	ABANDONED 1958	1958			892			ន	68		
	N-5W, SECTIO.	N 32				T PP T T	_												
	1937	DUNDEE	3125	13		DUNDEE	3150	8	ABANDONED 1	1947			2,000			8	100		
	W-2E, SECTIO	ONS 3, 5				:													
	1949	TRAVERSE	2031	3 L		DETROIT RIVER	2430	ı.	ABANDONED 1951	1951		17	19,229			01	1923		
	-8w, SECTION	9 1																	
GARRTELD TWP., 17	1946	DETROIT RIVER	5038	10 S		SYLVANIA	5307	ц	ABANDONED 1	1948		ц	13,769		535,811	04	344		
	7N-6W, SECTI	TON 18																	
GENEVA MIDLAND	1935	DUNDEE	3671	2		DETROIT RIVER	3898	0	0	1 1		0	63,143			70	905		
GENEVA TWP., 15N-2W, SECTIONS 19, 20,	-2W, SECTION	NS 19, 20, 29				ABANDONED IN 1960,		REACTIVATED IN 1967	67										
GENEVA VAN BUREN	1940	TRAVERSE	1042	2 1	31.5	TRENTON	2950	0 22	۰	η η		. 49	. 495,063			760	651		
GENEVA TWP., 18-16	18-16W, SECTIONS 20, 21,	NS 20, 21, 22, 27, 28,	, 29, 32,	33															
GIBSON BAY	1935	TRAVERSE	2036	1		DETROIT RIVER	#343	12 A	ABANDONED 1957	1957		5	51,892			130	399		
	1950	DUNDER	2942	1				п	ABANDONED 1952	1952	PRODU	PRODUCTION COMBIN	COMBINED WITH GIBSON	N TRAVERSE					_
GIBSON TWP., 18N-3E, SECTIONS 1, 2, 11,	-3E, SECTION	12;	DUNDER PRODUCTION	. 1	SECTION 2														
GIBSON, SEC. 20 BAY	1951	DUNDEE	3097	11 E		DETROIT RIVER	4343	3	0	3	1,273		27,780			28	986	0	0
GIBSON TWP., 18N-	TWP., 18N-3E, SECTIONS 20,	NS 20, 29									-								
GILBERT LAKE OCEANA	1956	TRAVERSE	2032	B L	42.5	REED CITY	27.11	3	0	1 3		0	50,733			8	1691		
COLFAX TWP., 16N-15W, SECTION 34	-15W, SECTIO	ų£ MC																	
GILMORE ISABELLA	1945	MISHIGAN STRAY	1560	8		DUNDEE	1604	9	ABANDONED 1952	1952				203,312	520				
GIIMORE TWP., 16N-5W, SECTIONS 25, 26, 36;	N-5W, SECTIO	- 1	VERNON TWP.,	16N-4W,	SECTION 31		_												
GILMORE ISABELLA	1955	DUNDER	3803	3 L	9*84	DUNDER	3812	12 0	~	4	3,698		372,186			120	3101	17400	0
GILMORE TWP., 16N-5W, SECTIONS 30, 31,	N-5W, SECTIO	32;	NOTTAWA TWP.,	15N-5W,	SECTION 5		_												
GOODWEIL	1,943	TRAVERSE	2760	15 T	43.0	BASS ISLANDS	4342	31 0	0	Ω	3,632		1,406,601,1			1240	895	Ŀ	5
GOODWEIL TWP., 141	4M-11W, SECT	GOODWELL TWP., 14N-11W, SECTIONS 5, 6, 7, 8, 9, 16,	16, 17								_								
GOODWELL REFER TO TABLE 5 1	DEVELOPED G.	REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS	ω.																
GOODWELL, EAST NEWAYGO	1,945	MICHIGAN STRAY	0611	ω .*		DETROIT RIVER	3498	2	ABANDONED 1	1950					7,504	88			
GOODWELL TWP., 141	14N-11W, SECTIONS 23, 24	TIONS 23, 24																	
GRANT	1929	GLACIAL DRIFT	632	1 8		DUNDEE	2385	3	ABANDONED 1	1955					8,020	120			
GRANT TWP., 20N-17W, SECTION 15	17W, SECTION	N 15																	
GRANT, SEC. 29 HURON	1953	DETROIT RIVER	3358	g 8	38.8	BOIS BLANC	3918	3	0	m	9	638	17,629			120	147	0	¥
GRAWT TWP., 15N-11E,	11E, SECTION	N 29																	
GREEN MECOSTA	1946	MICHIGAN STRAY	1250	8		REED CITY	3710	2	ABANDONED 1951	1951					73,368	350			
GREEN TWP., 16N-10W, SECTION 18	10W, SECTION	¥ 18																-	

L	P001 CLA	- POOL CLASSIFICATION	● ACT	ACTIVE DIL FIELD OR POOL) 01	ABANDONED OIL		FIELD OR POOL T ACTIVE GAS FIELD OR POOL	CT IVE G	AS FIEL	D OR PC	\$	ABANDONE	ABANDONED GAS FIELD OR POOL	OR P00L (1	GAS STORAGE RESERVOIR	Œ	NDEVELOF	UNDEVELOPED GAS STORAGE RESERVOIR	STORAGE	RESERV	VOIR
		>LNII03	YEAR	PRODUCING		PAY ZONE	ц,	DEEPEST FORMATION	DEPTH	NUMBER	ER OF OIL		WELLS	OIL PRODUC	OIL PRODUCTION - BBLS.	GAS PRODUCTION	THON - Mcf.	<u> </u>	RECOVER	RH BRI	BRINE PRODUCTION	JCT I ON	
-	FIELD NAME	PRODUCING SECTIONS DISC	OF IS DISC.	FORMATION OR POOL	DEPTH IN FEET	THICKNESS AND LITHOLOGY	OIL GRAVITY A.P.1.	OR POOL TESTED	FEET	5 S	COMP. ABAND.	PRODUCING AT END	SHUT IN OR SHUT DOWN	PRODUCED IN 1968	CUMULATIVE THROUGH 1968	PRODUCED IN 1968	CUMULATIVE THROUGH 1968	DRILLED	DRILLED (BBLS.)	SUBS	DISPOSAL JRFACE SURFACE		TOTAL BBLS. DAY
•	GREEN OAK	LIVINGSTOW	1961	FRENTON-BLACK RIVER				BLACK RIVER	5560	1 0	0	1		898	1,567	<u> </u>		07	33	1			'n
		GREEN OAK TWP., IN-6E, SECTION 14	6E, SECTI	ION 14																		\vdash	
•	GREENWOOD, SEC. 3	CLARE		TRAVERSE	3438	Jit L		DUNDEE	4048	п	٥			2,216	2,216			82	Ħ	9	0	0	9
1		GREENWOOD TWP., SECTION 3	TION 3							1	_										\dashv	\dashv	
P	GREENWOOD, SEC. 11	CLARE	1952	DUNDEE	1 ⁰ 00	10 L		RICHFIELD	5432,	3	ABANDONED 1953	1953			1,324			10	132				
		GREENWOOD TWP., 19N-5W, SECTION 11	W-5W, SECT	TION 11							_												
•	GROUT	GLADWIN	1,940	DUNDEE	3825	17		DETROIT RIVER	5240	2	ABANDONED 1957	1957		PRODUCTIC	PRODUCTION COMBINED WITH	TH GROUT RICHFIELD	GLIS						
			1958	DETROIT RIVER SZ	1084	12 D				7	ABANDONED 1963	1963		PRODUCTIO	PRODUCTION COMBINED WITH	TH GROUT RICHFIELD	ELD					_	
•			1956	RICHFIELD	5039	10 D	41.7			17 0	0	13	ı	77,116	1,314,967			89	1934	160		-₹	164
		CROUT TWP., 18N-2W, SECTIONS 10, 11, 14,	SECTIONS	3 10, 11, 14, 15																		-	
Ø	HAMILTON	CLARE	1940	MICHIGAN STRAY	1270	3 8		RICHFIELD	5395	77	ABANDONED 1954	1954					275,606	9		_			
			1,940	DUNDEE	1041	10 L	41.8			3 4	ABANDONED 1959	1959		PRODUCTIC	ON COMBINED WE	PRODUCTION COMBINED WITH HAMILTON RICHFIELD	HFIELD		ļ 				
•			1952	RICHFIELD	5145	12 D	42.2			145 0	т	27		336,217	075,244,4	157,540	3,146,907	1800	5469	782	- CI	,	782
		HAMILITON TWP., 19N-3W, SECTIONS 5, 6,	3W, SECTI	7, 8, 15;	AYES TWP	HAYES TWP., 19N-4W,	SECTIONS	1, 2; FROST TWP.,	203-4W, SE	SECTIONS 3	35, 36; M	MICHIGAN STRAY	Ä	HAMILION TWP., SE	SECTIONS 15, 23,	8		-				-	
Ф	HAMILION, NORTH	REFER TO TABLE 5 DEV	VELOPED G.	REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS															_		-	-	
Ø	HAMEIN	MASON	1952	SALINA-NIAGARAN	3950	d ;		CAMBRIAN	6622	-	ABANDONED 1962	1962						160			\vdash	+	
P			1952	ntagaran	4554	20 D	1,6,2				ABANDONED	1958			60,532			 _	1513		-	-	
		HAMILIN TWP., 19N-18W, SECTION 27	W, SECTIO	N 27														_			_		
•	HANOVER	JACKBON	1959	TRENTON-BLACK RIVER	4012	120+ D	43.0	PRAIRIE DU CHIEN	1091	10 0	0	10	9	847,48	1,174,698	88,153	398,472	180	6526	88		0	182
		HANOVER TWP., 45-2W, SECTIONS 8,	, SECTION	6,88																	-	_	
•	HARDY DAM	MECOSTA	1966	REED CITY	3351	5 D	8.44	DETROIT RIVER	3482	25 0	1	21	-	257,704	160,685			88	699	86	_	0	8
		AETNA TWP., 13N-10W, SECTIONS 5, 6, 7,	SECTION.	8 5, 6, 7, 8																L		-	
Ø	HARRISON	CLARE	2.96.5	MICHIGAN STRAY	1675	3 8		SYLVANIA	5633	7. A	ABANDONED 1962	1962					598,465	2 760				-	
•			1.945	DUNDEE	4190	13 г	39.7			0	0	CI		2,834	144,932			<u> </u>	181		•	*15	3.5
		LINCOLN TWP., 18N-5W	W, SECTIO	LINCOLN TWP., 18N-5W, SECTIONS 1, 12, 13; HATTON TWP., 18N-4W,	.P., 18N.	-4W, SECTI	SECTIONS 6, 7 ((Michigan Stray); DUNDEE IN	DEE IN HA	HATTON TWP	TWP., SECTION	7 NO										<u> </u>	
P	HART	OCEANA	1,933	1,933 TRAVERSE	1911	54 D	34.0	ST. PETER Ss	5531	17 A	ABANDONED 1,936	1936			316,275			150	775				
		HART TWP., 15N-17W,	SECTION	SECTION 36; ELBRIDGE TWP., 15N-16W, SECTION	-16W, SEC	сттом за																	
\tilde{\pi}	HARTWICK	OSCEOLA	1968	1968 MICHIGAN STRAY	1681	25 S		MICHIGAN STRAY	1706	τι	0	н	г					160					
		HARTWICK TWP., 19N-8W, SECTION 11	9w, SECTIO	ON 11																			
	HATTON	CLARE	1941 DUNDEE	DUNDEE	3945	2 I		DUNDEE	4,000	# H	ABANDONED	1948			139,272			160	870		-	_	
		HATTON TWP., 18N-44,	, SECTION 31;	31; LINCOLN TWP., 18N-5W,		SECTION 36																-	
e	намкнеар	ALLEGAN	1946	TRAVERSE	1103	1 L	36.0	DETROIT RIVER	1385	16 A	ABANDONED 1,960	1,960			262,89			160	427			H	T
		CASCO TWP., IN-16W, S	SECTIONS 20, 29	20, 29																		-	
Ø	HEADQUARTERS	CLARE-ROSCOMMON	1,945	MICHIGAN STRAY	1340	e s		BOIS BLANC	5929	12 0	0	či.	æ					1760			_		Γ
•			1,94,1	TRAVERSE	3356	5 I	42.3			0 24	0	5						1400		710		0	710
•			1958	DUNDEE	3899	12	39.9			0	٥	н						10		°		-	N _i
•			1942	DETROIT RIVER SZ	1,946	13 D	43.7	~															
•			1952	RICHFIELD	5147 2	23 D	42.6	~		0 09	0	54	17	799 , 867	10,030,067	0	4,248,560	2320	5689		0	71	1.7
1		ROGCOMMON TWP., 21N-	3W, SECTI	ROGCOMMON TWP., 21N-34, SECTIONS 17, 19, 20, 21, 28, 29, 30, 32, 33,	, 29, 30	, 32, 33,		34; FRANKLIN TWP., 20N-3W, SEC	SECTION 3,	4, 10, 11,	1, 15	THE 54	WELLS	LUDE 22 RICHF	TELD, 25 SOUR	INCLUDE 22 RICHFIELD, 25 SOUR ZONE AND 7 RICHFIELD & SOUR ZONE	HFTELD & SOUR	ZONE				_	
					\dashv													_				_	

FIELD NAME									_				١									
FIELD NAME	YE		PRODUCING		PAY ZONE	ш	DEEPEST	NO	DEPTH	NUMBER OF	0F 011. c	or GAS WELLS		L PRODUCT	OIL PRODUCTION - BBLS.	GAS PRODUCTION -	CTION - M		REC	[BRINE PRODUCTION	DUCTIO
	PRODUCING SECTIONS DISC		FORMATION OR POOL	DEPTH T	THICKNESS AND ALITHOLOGY	GRAVITY A.P.1.				TO COMP.	ABAND, PRO	COMP. ABAND. PRODUCING SHUT IN IN AT END OR SHUT DOWN	l	PRODUCED IN 1968	CUMULATIVE THROUGH 1968	PRODUCED IN 1.968	CUMULATIVE THROUGH 1968	7	ORILLED PER ACRES DR (B)	PER ACRE DRILLED (BBLS.) SUBS	DISPOSAL SUBSURFACE SURFACE	TOTAL BBLS. BRES.
HEATH	ALIEGAN 1	1.948 TRV	TRAVERSE	1498	2 7	38.0	SALINA		2716	25 0	1	4		1,192	204,267				270	757	0	17
	HEATH TWP., 3N-14W, SE	SECTIONS 11, 12, 13,	, 12, 13, 14																			
HEATH, SEC. 21	ALLEGAN	1960 SAI	SALINA	2648	19 D		SALINA		2789	1 AB	ABANDONED 19	1965					63,	63,430	160			
	HEATH TWP., 3N-14W, SE	SECTION 21									-		+				\downarrow	\dashv	1			
HEATH, SEC. 35	ALLEGAN	1945 TR/	TRAVERSE	1468	2		TRAVERSE		1470	1 AB	ABANDONED 19	1946			559				91	56		
	HEATH TWP., 3N-14W, SE	SECTION 35								1			+									
HESSEN	ST. CLAIR	1965 NIA	NIAGARAN	5499	261 D		NIAGARAN		2887	16 1	0	16	cu	21,854	51,053	3,209,373	4,922,193	-+	940	8	1,47	٥
	CASCO TWP., 4N-15E, SECTIONS 2, 3, 10,	ECTIONS 2,	11,	TUMBUS T	COLUMBUS TWP., 5N-15E,	5E, SECTIONS	IONS 34, 35											-				
HILLIARDS	ALLEGAN	1,944 TR/	TRAVERSE	1576	1.2 L		NIAGARAN		3157	17 AB	ABANDONED 15	1961	-		124,401				300	415		
	Ц	1958 SAI	SALINA A-1 CARB.	2938	30 D					0 9	0	9	m	827	8,300	57,695	1,993,258	-	096	6		
	HOPKINS TWP., 3N-12W, SECTIONS 4, 5 (Traverse);	SECTIONS	4, 5 (Traverse);	DORR TWI	DORR TWP., 4N-12W,	W, SECTION	ON 34; HOPKINS	NE TWP., 3N-1.2W,		SECTIONS 3,	3, 4, 10 (Seline)	line)	-									
HOLLON	MUSIKEGON	1948 TR/	TRAVERSE	1993	n r	37.3	DUNDEE		2554	3 AB	ABANDONED 1963	963			116,92				9	1598		
	HOLTON TWP., 12N-15W, SECTIONS 4, 9	SECTIONS	6,4																			
HOME, SEC. 26	MONTICALM 3.	1964 TRI	TRAVERSE	3096	10 L	45.3	REED CITY		3618	1 0	0	-		248	1,279			\dashv	10	127	0	Q
	HOME TWP., 12N-6W, SECTION 26	CTION 26																\dashv				
HOPE	BARRY	733 ILI	TRAVERSE	1869	3 L	37.6		PRAIRIE DU CHIEN	1,944	0 99	0	37	1	10,713	592,659				650	912	0	5
	HOPE TWP., 2N-9W, SECTIONS 26, 27, 28,	TIONS 26,	27, 28, 33, 34, 35;	1	BARRY TWP., 1N-9W, SEC	N-9W, SEC	FIONS 1, 2, 3, 12	3, 12		\exists										-		
HOPKINS	ALLEGAN 1	1939 TRA	TRAVERSE	1633	13	41.5	DETROIT RIVER		1965	10 AB	ABANDONED 19	1,956			145,513				077	1323		
	HOPKINS TWP., 3N-12W, SECTIONS 22, 23	SECTIONS	22, 23							-									+			
HOPKINS, SOUTH	ALLEGAN	1948 TR/	TRAVERSE	1538	3 12	38.0	TRAVERSE		1611	35 0	0	ĈI.		615	396,662				330	808	0	4
	HOPKINS TWP., 3N-12W, SECTIONS 19, 30,	SECTIONS	19, 30, 31, 32										-					+				
HOPKINS, WEST	ALLEGAN	1941 TR/	TRAVERSE	1371	2	41.5	CLINTON		3140	31 AB	ABANDONED 19	1951	+		388,777				370	1051		
	1	1956 SAI	SALIWA	2755	7 D	17.9				0	7	0			1,849	ABANDONED 1968	968		80	36	+	
	HOPKINS TWP., 3N-12M, SECTIONS 7, 18	SECTIONS	7, 18										-					\dashv		+		
HOWELL	HEFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS	LOPED GAS	STORAGE RESERVOIRS							-								+		1		
HUBBARDSTON	IONIA	1947 DUI	DUNDEE	3028	5 1		DUNDER		3072	5 A.B.	ABANDONED 19	1959	-		624,84			+	20	970		
	NORTH PLAINS TWP., 8N-3W, SECTION 4	1-3W, SECTI	th NO.						\top	-								-	+	+		
HUBER	NEWAYGO 1	1955 TRA	TRAVERSE	2109	2 1	41.3	DETROIT	RIVER	3400	13 0	-	2	Q	2,721	546,271				360	2101	295	0
	DENVER TWP., 14N-14W, SECTIONS 4, 5,	SECTIONS	4,5,8										+						+	-	+	
TRA	REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS	LOPED GAS	STORAGE RESERVOIRE							_								+				
Z ISABELLA	ISABELIA 1	1949 MIC	MICHIGAN STRAY	1454	7 8		DETROIT RIVER		3993	6 AB	ABANDONED 19	1956					335	335,791	240			
	1	1,948 DUI	DUNDEE	3783	0 6	6.94				0 02	0	н	1	680	823,056		0 138	138,559	370	2224	0	0
	ISABELLA TWP., 15N-hW, SECTIONS 7, 18 (Michigan	, SECTIONS	7, 18 (Michigan	Stray); E	ISABELLA TWP., SECTI	WP., SECT	ONS 7, 18;	NOTTAWA TWP	, 15N-5W,	SECTIONS,	12, 13	(Dundee)	_						1			
ITHACA	GRATIOT 1	1943 MIC	MICHIGAN STRAY	8	36 s		DUNDEE		3419	5 AB.	ABANDONED 19	1965					1,520,995	_	88		1	
	ARCADIA TWP., 11N-3W, SECTIONS 25, 35,	SECTIONS	25, 35, 36																-		1	
JEFFERSON	CASS	1961 IBA	TRAVERSE	710	3 ₽	32.0		PRAIRIE DU CHIEN	2603	0 02	0	Ŀ	3	1,055	100,267				00†	251	275	٥
	JEFFERSON TWP., 78-15W, SECTIONS 22,	W, SECTION	822, 23, 26, 27,	35									_					-				
JEROME	MIDLAND	1947 DUI	DUNDER	3743	10 L	39.0	DETROIT RIVER		1004	12 0	0	3	п	2,534	229,176			+	980	381	,či	٥
	JEROME TWP., 15N-1W, SECTIONS 6, 7,	SECTIONS 6	, 7, 8							_								+				
													_									

	Pour CI	POOL CLASSIFICATION	174	ACTIVE OIL BIBLIO OR POOL		# # # #.		בולל בולל	T See	CAD GAR THE GRAND CAD	2 ≿	ILLL RANDONED	A LILLUS COMMIN	I ILLD COIIIINGE		GLOVERS BEST OF STANDING		100	OLOVICATION OF CTOBACE DESCRIPTION	000	a Chai
L	200			10 11 11 11 11 11 11 11 11 11 11 11 11 1	R	מונה מונ	X	1 1 1 1	3 20 1 1 1	20		L	243 - 1 ELD	D 1001 W	240000000000000000000000000000000000000	- NESEWACE	D.	Jevelore.	D GAS SION	AGE NEC	
	FIELD NAME	COUNTY YEAR	YEAR	PRODUCING FORMATION	DEPTH THICKNESS	NE OIL	DEE	DEPTH			Or GAS		PRODUCTION	ION - BBLS.	GAS PRODUCTION	TION - Mcf.	PRILLED	RECOVERY PER ACRE	- 1	BRINE PRODUCTION	TOTAL
>		PRODUCING SECTION	S DISC.	0R P00L	IN AND FEET LITHOLOGY	GRAVITY A.P. I.	r POOL TESTED	FEET	S.	1968	IN AT END 968	OR SHUT DOWN	1968	THROUGH 1968	1968	THROUGH 1968	ACRES	(BBLS.)	SUBSI	SURFACE	BBLS.
• JC	JOHNSTOWN	BARRY	1981	TRAVERSE	1870 2 L	37.0	TRAVERSE	1899	2 0	_	Q		1,175	27,517			20	550	0	۰	٥
		JOHNSTOWN TWP.,1N-8W,	W, SECTI	SECTIONS 7, 8, 17																	
€ Ž	KAWKAWLIN	BAY	1941	BEREA	1505 lt S	38.0	ST. PETER Sa	10,477	0 1	0	77	٦					9		0	0	0
•			1938	DUNDEE	2830 45 L	35.0			320	п	596	9			0	φ5,4	6400		614	12	306
•			1939	DETROIT RIVER	3515 5 D	1,2.0			8 1	0	7	-	240,000	13,728,304			88		0	0	0
Ø			1941	SALIWA	7760 16 D				1 A	ABANDONED 1	1946					NO RECORD					
		MONITOR TWP., 141.4:	E, SECTI	MONITOR TWP., 14H-4E, SECTION 2 (Selina); KAWKAMLIN TWP., 15N-4E, SECTIONS	CIN TWP., 15N-4E,		26, 27, 28, 29, 33, 34,	35,	36; MONITOR TWP.,	TWP., 14N.	14N-4E, SECTIONS	1, 2,	3, 11, 12; BAD	BANGOR TWP., 14N-5E,	SECTIONS	4, 5, 6, 7, 8,	9,; BANGOR	TWP.	15N-5E, SECT	SECTION 31	
₩ •	KIMBALL LAKE	NEWAYGO	1.947	TRAVERSE	2332 6 L	43.0	ST. PETER Ss	6899	0 901	0	ĸ		1,067	6,221,335	0	123,31	1	2934	0	*1680	1680
•			1955	REED CITY	2852 37 ?	39.2			0 2	0	т						8	20 USED FOR GAS	2	OPERATE TRAVERSE WELLS	S WELLS
		GARPIELD TWP., 12N-13W, SECTIONS 2, 10, 11,	.13W, SEC	TIONS 2, 10, 11, 12, :	12, 13, 14, 15, 24																
Ä	LACOTA	VAN BUREN GENEVA TWP., 15-16W,		1946 TRAVERSE SECTIONS 9, 10	1110 2 L		TRAVERSE	1208	11 A	ABANDOWED 1	1955			51,904			120	1433			
• Irv	TAKEFIELD	SAGINAW		DUNDERE	3185 12 L	39.0	DUNDEE	3197	0 1	0	1		797	26,070			ន	2607	0	0	0
		LAKEFIELD TWP., 11N-1E, SECTION 1	-1E, SEC	TION I							-										
LA	LAKETON	MISKEGON	1965	TRAVERSE	1698 th L	4.14	REED CITY	2199	8 1	П			65,002	152,723			800	192	3	0	1
		LAKETON TWP., 10N-17W, SECTIONS 10, 15	TW, SECT	IONS 10, 15																	
•	LAKEVIEW	MONTCALM	1961	TRAVERSE	2941 4 L	42.5	REED CITY	3495	0 2	o	cu		811	7,333			8	367	0	0	0
		CATO TWP., 12N-8W, S	SECTION	22														i			
•	LAKE GEORGE	CLARE	1954	DUNDER	3968 2 L	43.8	DUNDEE	3997	10	4	3	г	4,772	347,209			87	3472	38	٥	88
		LINCOLN TWP., 18N-5W, SECTION 6	w, smcTI	ow 6																	
E.	LARKIN	MIDIAND	1935	BEREA	2473 th S	39.0	DUNDEE	3829	or A	ABANDONED 1	1945			070,7			8	353			
		LARKIN TWP., 15N-2E, SECTIONS 21, 32	, SECTIO	NS 21, 32																	
¥ .	LAWTON	VAN BUREN	1939	TRAVERSE	11.40 1 L	37.5	TRENTON	2775	0 59	m	8	-	1,465	207,414			650	319	12	CV.	7.7
		PORTER TWP., 48-13W,	, SECTIO	PORTER TWP., 48-13W, SECTIONS 5, 8, 17, 18, 19, 20;	PO; DECATUR TWP.,	., 4S-14W,	SECTION 24														
Ē X	LEATON	ISABELLA	1935	MICHIGAN STRAY	1240 2 8		DUNDER	3710	5 A	ABANDONED 1	1940					185,609	001				
•			1929	DUNDEE	3657 7.5 L	43.0	DETROIT RIVER	14390	0 04	0	2		4,764	1,747,962			8,	34.96	125	0	125
		DENVER TWP., 15N-3W,		SECTIONS 17, 19 (Michigan Stray);	tray); DENVER TWP.,	P., SECTIONS	NS 19, 30, 31; ISABELLA	TWP.,	15N-4W, SI	SECTIONS 24,	+, 25 (Dundee)	(ee)									
E I	LEBANON	CLINTON	1948	TRAVERSE	2548 1 L		TRAVERSE	2570	1 A	ABANDONED 1950	.950			1,036			10	10,			
		LEBANON TWP., SN-4W, SECTION	, SECTIO	N 34																	
TEE	9	ALLEGAN	1941	TRAVERSE	1170 1 L		TRAVERSE	1207	6 A	ABANDONED 1952	:952			3,030			09	12			
-		LEE TWP., IN-15W, SECTIONS 18, 19;	ECTIONS	CASCO TMP.,	IN-16W, SECTION 13	13															
TEBE.	E, SOUTH	ALLEGAN	1949	TRAVERSE	1171 1 L		TRENTON	2960	12 A	ABANDONED 1953	:953			711,19			120	759			
		LEE TWP., IN-15W, SECTION 31;	ECTION 3.	1; CASCO TWP., IN-16W, SECTION	16W, SECTION 36																
	LENOX	REFER TO TABLE 5 DEV	VELOPED (REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS																	
Ä	LEONARD	OAKLAND	1963	NIAGARAN	4245 21 D		CLINTON	0544	7 %	٥	2	0					8				
		ADDISON TWP., 5N-11	5N-11E, SECTION 15	ION 15																	
● LEROY	30%	OSCEOLA	1965	REED CITY	3796 4 D		REED CITY	3800	O QI	0	OJ.		976,4	18,979			8	237	0	0	0
		LEROY TWP., 19N-10W, SECTION 27	SECTION.	127																	
E LIB	LING LAKE	HILLSDALE	1960	PRAIRIE DU CHIEN	3461 5 D	9.44	PRAIRIE DU CHIEN	3533	1 AI	ABANDONED 1965	365			7,842			8	392			
		WRIGHT TWP., 8S-1W, SECTION 11	SECTION	11																	
			_					_													

TABLE 4 MICHIGAN OIL AND GAS FIELDS Continued

FIELD LINCOLN,																				_	_		
LING		YE	YEAR	PRODUCING		PAY ZONE	ш	DEEPEST FORMATION	N DEPTH		NUMBER OF OIL	0	GAS WELLS		51	- BBLS.	GAS PRODUCTION	TION - Mcf	\neg	RECOV	1	BRINE PRODUCTION	UCTION
LINCC	FIELD NAME	PRODUCING SECTIONS DISC	0F	FORMATION OR POOL	DEPTH IN FEET	THICKNESS AND LITHOLOGY	GRAVITY A.P. I.	POOL TESTED	FEET	E S	COMP. ABAND. 1968	ABAND, PRODUCING IN AT END 968	FNG SHUT IN OR SHUT DOWN		PRODUCED CU	CUMULATIVE THROUGH 1968	PRODUCED IN 1968	CUMULATIVE THROUGH 1968	IE ACRES	ES DRILLED (BBLS.)		DISPOSAL SUBSURFACE SURFACE	FACE DAY
	OLN, SEC. 18	ARENAC	1957	TRAVERSE	27.17	ı r		DUNDER	3062	Q	0	ત્ય		οg	WEINED WITH	COMBINED WITH SECTION 31 PRODUCTION	PRODUCTION		50	c		0	0
		LINCOLN TWP., 18N-4E, SECTION 18	SECTIC	N 18																			
LINC	LINCOLN, SEC, 31	ARENAC 15	1963	DUNDEE	2942	10 D	34.9	DUNDEE	59862	٦	0	٥			149	2,375	ABANDONED 196	80	10	237			
		LINCOLN TWP., 18N-4E, S	SECTION 31	31 3T							-		_							-	-		1
LOCAN	N.	MASON 15	1941	RICHFIELD	3260	25		RICHFIELD	3330	QI ,	0	Qi	~			528	٥	13,289	8				
		LOGAN TWP., 17N-15W, SECTIONS 9, 16	SECTION	£ 9, 16					_										-		-		1
LOGAN	N	OCEMAW 1.9	1949	WEIR	1230	11 8		RICHFIELD	4537	-	UCTION C	PRODUCTION COMBINED WITH	ITH BEREA						-				1
		113	1944	BEREA	1420	s 9				91	0	71	OJ.				177,575	663,553	53 2240				-
		LOGAN TWP., 22N-4E, SEC	DCTIONS	SECTIONS 16, 17, 18, 20, 23,	25; CHURCHILL	RCHILL TW	TWP., 22N-3E	E, SECTIONS 1, 12															-
LUCHT	F	BAY	1949	TRAVERSE	2230	3 L	37.2	DUNDEE	3240	2	0	٦			992	191,102			20	3822	Cu		
		PINCONNING TWP., 17N-4E, SECTION 29	4E, SEC	TION 29											-				_				
LUTHER	ER	LAKE 15	1965	TRAVERSE	2565	2	42.0	REED CITY	3362		0	-			888	86t, 75			8	0 1375		275	0 275
		NEWKIRK TWP., 19N-12W, SECTION 14	SECT1	ton 14															-		-		
LYNDON	NO	WASHITENAW-LIVINGSTON 1958	1958	TRAVERSE	1311	Q 9		TRENTON	4702	9	0	9		_			848,99	375,600	% &		_		
		77	1959	DETROIT RIVER	1733	11 0				PROD	UCTION C	PRODUCTION COMBINED WITH	TH TRAVERSE	gg									_
		DES 'SE-ST '. THE NOOLKI	SECTIONS 6, 7;	s 6, 7; UNADILLA TWP., IN-3E, SECTION	,, 1N-3E	, SECTION	31																
MACO	MACON CREEK	LENAMEE 15	1961	THENTON-BLACK RIVER	2548	36+ D		TRENTON-BLACK RIVER	/ER 3303	г	0	7		-	154	783			01		8	0	0
		MACON TWP., 58-5E, SECT	SECTIONS	23					_	1	\dashv	_		-						-			+
MANISTEE	STEE	MANISTEE 15	1959	SALIWA	3616	a d		NIAGARAN	4165	7	ABANDONED	NED 1961		+					0 1160	0	_		+
		FILER TWP., 21N-17W, SECTION 24	SECTION	45 л					-	1	-			-					+	-		-	
MAPL	MAPLE VALLEY, SEC.16	MONTCALM	1958	MICHIGAN STRAY	1120	5 8		REED CITY	3365	-	0	7		4					0 160	0		DOMESTIC U	USE
		MAPLE VALLEY TWP., 11N-	11N-9W, S	SECTION 16		_	\perp		-	1	+		-	-					-	-		1	+
MARATHON	THON	LAPEER 15	1955	BEREA	2449	1.8 s		BEREA	1,467	-#	0	.#	*	_	0	186			7	04	2		+
		MARATHON TWP., 9N-9E, SECTION 16	SECTIC	91 NC			_			1	+		\dashv	-					-	-	-		+
MARI	MARINE CITY	ST. CLAIR 15	1955	SALINA-NIÀGARAN	21.76	21 D	38.0	CLINTON	2428	81	0	174	e.		26,907	277,200	392,290	3,065,467	99 29	024	8	88	0
		COTTRELLUILLE TWP., 3N-	N-16E,	3M-16E, SECTIONS 2, 3, 10, 11	11, 15						-		-	_					-	\dashv			\dashv
MARI	MARINE CITY, SOUTH	ST. CLAIR 15	1962	SALINA-NIAGARAN	2100	Q 17	38.7	NIAGARAN	2251	10	0	6	3	_	32,41	76,755			00,7	0 192	Q.	82	0
		H	1962	SALINA A-1 CARB.	2100	Q 4								_			96,322	290° 4149	57				
		COTTRELLVILLE TWP., 3N-16E, SECTIONS 23,	N-16E,	SECTIONS 23, 26										_						-			7
MARIC	MARION(Winterfield)	REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS	LOPED G	HAS STORAGE RESERVOIRS																-			+
MARNE	2	OTTAWA 119	1940	"BEREA"	11.70	e. ™		TRAVERSE	1,904	cu .	ABANDONED	NED 1946		_		6,253			Č.	20 31.3	5		
		TALLMADGE TWP., 7N-13W, SECTION 5;	W, SECT	TION 5; WRIGHT TWP.,	, 8N-13W,	SECTION	32		_														
MARS,	MARSAC CREEK	ST. CLAIR 13	1965	SALINA-NIAGARAN	2450	g 061		CLIMTON	2903	5 8	0	5	CV.		215	1,681	1,84,463	1,399,850	200		80	07	0
		CASCO TWP., 4N-15E, SEC	ECTIONS	SECTIONS 29, 30				ONE WELL PRODUCING	NG CITL AND	D GAS													
MARTIN	MI	ALLEGAW 1.5	1948	TRAVERSE	1617	пι	36.0	ST. PETER Ss	1,290	2	ABANDONED	NED 1960				2,188			CU .	20 109	8		
		MARITH TWP., 2N-11W, SECTION 18	SECTION	и 18																			
MARTINY	TML	MECOSTA	1934	MICHICAN STRAY	1370	8 2		DEFROIP RIVER	3807	2	0	-27					19,568	1,140,607	07 680	Q			
		MARTINY TWP., 15N-8W, SECTIONS 12, 22,	SECTION	ONS 12, 22, 23					_	4				_						-			1
MCBAIN	A(I)	MISSAUKEE 12	1959	DONDEE	3969	15 T	45.0	DUNDEE	3973	45.	0	83	ч		127,992	2,582,613			8	920 2807		6304	0 6304
		RIVERSIDE TWP., 21N-7W, SECTIONS 19, 20,	W, SECT	30;	CICHLAND	RICHLAND TWP., 21N-8W, SECT.	-8w, SECT	ION 24															

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MICHIGAN OIL AND GAS FIFIDS Continued

L					AD AD	IABLE 4	Ξ	Z	3	AND	U UA.	2	LIELDS					- 1				
<u>_</u>	P001 CL	POOL CLASSIFICATION	ACTI	ACTIVE DIL FIELD OR POOL	ا اور	ABANDONED OIL	710 Q	FIELD OR POOL CY A	CTIVE 6.	4S FIEL	ACTIVE GAS FIELD OR POOL	Ø	ANDONED	ABANDONED GAS FIELD OR POOL	JR P00L ⊕	GAS STORAGE RESERVOIR	RESERVOIR	š D	1DEVEL OP	UNDEVELOPED GAS STORAGE RESERVOIR	GE RESE	RVOIR
	ELEI D. MANE	COUNTY YEAR	YEAR	PRODUCTING FORMATION	ACO TU	PAY ZONE		DEEPEST FORMATION OR	DEPTH	NUMBER TO COMP	ER OF OIL	L or GAS WELLS		OIL PRODUCTION	ION - BBLS.	GAS PRODUCTION	FION - Mcf.	DRILLED	RECOVERY PER ACRE	BRINE PRODUCTION	RODUCTIO	z [
>		PRODUCING SECTIONS	Disc.	OR POOL	FEET	AND AND LITHOLOGY	GRAVITY A.P. I.	POOL TESTED	FEET	END	1968	1968 SHUT DOWN		1968	тикоиан 1968	1968	THROUGH 1968		ORILLED (BBLS.)	SUBS		BBLS. DAY
\Diamond	F MCKAY	CLARE	1929	MICHIGAN STRAY	17000	3 8		DETROIT RIVER	4055	0	٥	2	L				712,626	360	DOMESTIC	TIC USE		
		GRANT TWP., 17N-4W, S	SECTION	SECTION 6; SURREY TWP., 17N-	17N-5W, SECTION 1;		HATTON TWP	., 18M-4W, SECTION 31		\dashv												
	MEARS	OCEANA	1951	TRAVERSE	1745	2.5 DL	36.1	REED CITY	2347	п	ABANDONED 1959	1959			105,807			ů	622			
			1949	DUNDER	2210	3 L	32.2				ABANDONED	1959			PRODUCTIC	PRODUCTION COMBINED WITH	TH MEARS TRAVERSE	TREE				
		GOLDEN TWP., 15N-18W, SECTIONS 34,	W, SECTIC	ONS 34, 35																		
•	MEDINA	LENAWEE	1961	TRENTON-BLACK RIVER	2921	Ω 9T	04	PRAIRIE DU CHIEN	3847	1 0	0	τ	1	0	4,324			약	108			
		MEDINA TWP., 88-1E, SECTION	SECTION	3																		
\Diamond	F MECOSTA	MECOSTA	1966	MICHIGAN STRAY	1345	10 s		DUNDEE	3709	0	0	8				71,382	71,382	320				
		MORTON TWP., 14N-8W, SECTION 10	, SECTION	10																		
Ø	MECOSTA LAKE	MECOSTA	1953	MICHIGAN STRAY	1314	35 SI		DONDER	3690	c	ABANDONED	1956					170,48	320				
		MORTON TWP., 14N-8W, SECTIONS 17,	SECTION.	NS 17, 20																		
\Diamond	MIDDLE BRANCH	OSCEOLA	1964	MICHIGAN STRAY	1630	10 s		DETROTT RIVER	4283	0 71	7	3	1			8,990	226,532	049				
		MIDDLE BRANCH TWF., 19N-7W, SECTIONS 17, 18	19N-7W,	SECTIONS 17, 18																		
•	MILLS, SEC. 1	MIDLAND	1957	DUNDEE	3450	cu		DUNDEE	3463	0	٥	1		1422	7,675			9	767	٥	0	0
		MILLS TWP., 16N-2E, SECTION	SECTION	1																		
Ø	MINERAL SPRINGS	OSCEOLA	1952	MICHIGAN STRAY	1397	8		DETROIT RIVER	3963	#	ABANDONED	1960					288,762	08 [†] t				
•			1951	DUNDEE	3854	7 D	₹. 4.5			120	٦	1		191,1	298,177			240	1242	25	٥	25
		SHERMAN TWP., 20N-9W, SECTIONS 16,	V, SECTIO	NS 16, 20, 21						\dashv												
	MIO	OGEMAW-OSCODA	1946	RICHFIELD	4219	Q 9	32.9	CLIMTON	8544	0 #	0	2		1,570	51,048			160	31.9	0	0	0
		MENTOR TWP., 25N-3E,		SECTIONS 30, 32; ROSE TWP.,	24N-3E,	SECTIONS	3, 4			\dashv												
	MOFFACT, SEC. 34	ARENAC	1,964	TRAVERSE	2700	Q 7		DUNDER	3027	0 1	0	п	7	0	357			8	%			
			1953	DUNDEE	2984	17				-	ABANDONED	1956			8,392			9	839			
-		MOFFAIT TWP., 20N-3E,	20M-3E, SECTION 34	ηε no						\dashv			1									
Ø	MONTAGUE	MUSKEROON	1953	SALINA-MIAGARAN	37342	8		TRENTON	4517	0	٥	a	-1				284,14	084		DOMESTIC	USE	
		MONTAGUE TWP., 12N-17	TYM, SECT	MONTAGUE TWP., LEM-17W, SECTION 7; WHITE RIVER TWP., LEM-18W, SECTION LE	WP., 12N	-18W, SECT	TON 12			-												
•	MONTEREY	ALLEGAN	1938	TRAVERSE	1618	3 F	37.6	CINCINNATIAN	3506	0 66	٥	п	1	2,929	1,003,551			1030	9774	0	#	#
_		MONTEREY TWP., 3N-13W, SECTIONS 2, 4, 8, 9, 10,	W, SECTI	CONS 2, 4, 8, 9, 10, 1	11, 14, 15, 16,	5, 16, 17,	18, 20,	21, 22, 23, 24, 27, 32,	æ													
\Diamond	MORTON	MECOSTA	1.946	MICHIGAN STRAY	1279	8		DUNDEE	3691	0	0	ъ					118,377	320		DOMESTIC	C USB	
_		MORTON TWP., 14N-8W, SECTIONS 15, 22	SECTION	B 15, 22						\dashv												
\Diamond	Mr. CLEMENS	MACOMB	1961	SALINA	2590	18 D		CAMBRIAN ?	14695	0	0	1	_		65			Q-	€			
		MACCAUB TWP., 3N-13E, SECTION 34	SECTION	134	ORIGINALLY	ALLY OIL W	ELL CONVER	OIL WELL CONVERTED TO A DOMESTIC GAS	WELL 1967													
•	MT. FOREST	вах	1952	TRAVERSE	21.24 22.24	0 m	36.2	RICHFIBLD	4305	0 4	0	Ca .						8		22	٥	25
•			1.947	DUNDEE	3025	0	34.1			37 0	0	%		10,743	835,568			%	870	0	8	80
		PINCONNING TWP., 17N-48, SECTIONS 18, 19;	1-4E, SEC	M	FOREST TWP.,	P., 17N-3E,	SECTIONS	3 13, 24														
P	Mr. FOREST, SEC. 1	BAY	1946	DUNDEE	2960	2 1		DUNDEE	3057	-	ABANDONED	1946	-	i	1,906			10	191			
		MT. FOREST TWP., 17N-3E, SECTION 1	1-3E, SEC.	TION I						-												
	Mr. HALEY	MIDLAND	1.934	DUNDEE	3477	3 D	39.6	DUNDEE	3500	н	ABANDONED	1947	7		36,069			10	3607			
		MT. HALEY TWP., 13N-1E, SECTION 28	IE, SECT	ION 28						+			+									
										-			+									
										-												

FIELD NAME MUSKEGON MUSKEGON MUSKEGON MUSKEGON	COUNTY YEAR TOWNSHIP OF PRODUCING SECTIONS DISC	YEAR	ACTIVE OIL FIELD OR POOL	70.	PAY ZONE	- D O O C -	ELD UK FOOL	ACI IVE	₽	200 400	X						1				
FIELD NAME MUSKEDON MUSKEDON MUSKEDON MUSKEDON MUSKEDON		YEAR	_	ļ	PAY ZONF							_		-			-				2
MISKECON MIS				AT 020	THICKNESS	ē	DEEPEST FORMATION OR			P. ABANO. P	NUMBER OF OIL OF GAS WELLS O COMP. ABAND. PRODUCING SHUT I	z	티	ON - BBLS. CUMULATIVE	GAS PRODUC	GAS PRODUCTION - Mcf. PRODUCED CUMULATIVE	ORILLED ACRES	D PER ACRE DRILLED		DISPOSAL TO	101
MT PLEAGANT MUSKEDON MUSKEDON	ISABELLA-MIDLAND	ONS DISC.		FEET	INICKNESS AND LITHOLOGY	GRAVITY A.P.I.	POOL TESTED	FEET		1 9 6 8	AT END SHUT	SHUT DOWN 199	1968	тикоиби 1968	1368	THROUGH 1968		(88LS.)	Subs	SURFACE	
MUSKEGON MUSKEGON MUSKEGON	_	1928	DUNDETE	3545	15 L	41.8	SYLVANIA	17871	1,485 0	0	144	80	98,870	27,287,551			3 5710	4779	1033	5.1	1084
MUSKEGON	GREENDALE TWP., 1	14N-2W, SEC	GREENDALE TWP., 14N2W, SECTIONS 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,	, 12, LL	13, 14, 15	, 16, 17,	18, 19; LEE TWP., 14N-1W, SECTIONS	14N-1W, SE	F-	8, 18;	THE 144 W	THE 144 WELLS INCLUDE 139 DUNDER, 1 TRAVERSE	139 DUNDER	, 1 TRAVERSE	AND 4 DUNDEE	& TRAVERSE	-				4
MUSKEGON	CHIPPEWA TWP., 14N-3W, SECTIONS 1,	4N-3W, SEC.	2, 3, 4,	2, 13; D	11, 12, 13; DENVER TWP., 15N-3W,	, 15N-3W,	SECTIONS 28, 33, 34					-					-+	4		-	
MISKEGORI	MUSKEGON	1927	TRAVERSE-DUNDER- DETROIT RIVER	1640	7 9		ST. PETER 38	4754	0	0	CI.					7,237,438	1520	\perp	DOMESTIC USE &	LEASE FUEL	
MISKEGON MITTONVILLE	MUSKEGON TWP., 10	ON-16W, SEA	MUSKECON TWP., 10N-16W, SECTIONS 4, 5, 6, 7, 8, 9, 15, 22; LAKETON TWP., 10N	, 15, 22	, LAKETON		-17W, SECTION 12														_
MUTTONVILLE	MUSKEGON	1928	TRAVERSE &DUNDEE	1700 3.5	3.5 L	37.4	ST. PETER Sa	4754	-	a	13	-	3,821	7,003,325			3170	5509	٥	#217	ส
MULLOWITHE	MUSKEGON TWP., 10	ON-16W, SE	MUSKEGON TWP., 10N-16W, SECTIONS 3, 4, 5, 6, 7, 8, 9, 10, 15, 16, 17,	, 9, 10,	15, 16, 1	7, 21, 22;	; LAKETON TWP., 10N-17W, SECTIONS	-17W, SECT	ਜੰ	12, 12, 13,	4,1		-							-	4
	MACOMB	1966	SALIMA-NEAGARAN	2576	19t D		CLIPTION	3039	77	0	-				2,359,406	3,240,247	74 280		1,4	٥	7,7
	LENOX TWP., 4M-14E,	4E, SECTION 13	W 13									_					-	1		+	4
MELLSVILLE	ROSCOMMON	1957	DUNDEE	3710	9	40.3	DETROIT RIVER	5165		ABANDONED	1967			16,528			9	413			-
		1956	RICHEIED	4932	17	42.2				ABANDONED	1,967			10,912			or	109			4
	ROSCOMMON TWP.,	22N-4W, SE	TWP., 22N-4W, SECTIONS 8, 17														-			_	
NEWARK	GRATION	1.948	3 MICHIGAN STRAY	979	5 8		DUNDEE	3255	9	-#	0		+		0	141,757	24	4	ABANDONED 1968	-	-
	NEW HAVEN TWP.,	lon-hw, SE	NEW HAVEN TWP., LON-4W, SECTIONS 23, 24, 25, 26					-					-					\perp			4
NEW BOSTON	WAYNE	1943	3 TRENTON	2635	1 1		TRENTON	2983	a	ABANDONED	1949			2,349			8	118			\perp
	HURON TWP., 48-9E,	E, SECTION 18	и 1.8														1				1
NEW LOTHRUP	SHIAWASSEE-CENESEE	3EE 1967	7 BEREA	1623	S	9#	SYLVANIA	まま	8 27	1 8	TT.	2	17,999	21,837			240	12/	4.5	0	45
	FLUSHING TWP., 8N-5E, SECTION 7, 18;	N-5E, SECT	IION 7, 18; HAZELION IWP., 8N-4E,	WP., 8N-	-4E, SECTION	N 1, 12		-				-	-				+	1			1
NEW RICHMOND	ALLECAN	1965	5 TRAVERSE	1364	1 1		TRAVERSE	1365	7	ABANDONED 1	1966			104			01	g			-
	MANLIUS TWP., 3N-15W, SECTION 16	(-15W, SECT	FION 16										-				-	4			4
NTELES	BERRIEN	1940	O TRAVERSE	602	7 L	21.5	TRENTON	2089	-	ABANDONED	1958			29,672			2	721			\perp
	NILES TWP., 78-17W,	TW, SECTIC	SECTIONS 1, 2, 3					-		+							+	_		4	4
NORTH MORENCY	LENAMEE	1962	2 TRAVERSE	638	D 0		PRAIRIE DU CHIEN	3284	69	0 0	69	69	0	29	48,763	103,078	78 2840	FIELD	ED SHUT IN		-
	SENECA TWP., 88-	-2E, SECTIC	SENECA TWF., 88-2E, SECTIONS 10, 13, 14, 15, 16, 17, 19,		20, 21, 22,	2, 23, 24,	25, 27, 28, 29, 30;	MEDINA	TWP., 88-1E,	LE, SECTIONS	18 24, 25, 35		-				+				+
NORTH PORTER	CASS	1930	O TRAVERSE	099	2 1	37.0	TRENTON	2382	Q	ABANDONED	1953			1,424			8	LL.			-
	PORTER TWP., 75-13W,	-13W, SECTI	SECTION 32										1							-	+
NORTH STAR	GRATIOT	1940	O MICHIGAN STRAY	870	2 2		DUNDES	3100	7	0	-	1			7,297	559,117	17 40	_	-	_	- -
	NORTH STAR TWP., 10N-2W, SECTION 4	, 10N-2W,	SECTION 4									-	+				1	1		_	4
NORTHVILLE	WASHTENAW-WAYNE-	1,948	8 DUNDEE	788	2 I		CAMBRO-ORDOVICIAN	w 5850	-2	ABANDOWED	1961						0 640	\perp	DOMESTIC USE	-	L
		1937	7 SALINA-NIAGARAN	2905	2 D						9						1200		1	-	+
		1960	O NIAGARAN	3515	25 D	42.5									25,041	3,794,518	818	1		1	+
		1954	4 TRENTON-BLACK RIVER	4395	70 D	39.8					18		28,845	986,783	53,272	14,332,358	358 2835	348		-	-
	SALEM TWP., 18-7	7E, SECTION	SALEM TWP., 15-7E, SECTIONS 1, 2; LYON TWP., IN-7E, SECTION 36 (Dundee); LYON	TE, SECT.	nd) 96 NOI	ndee); LYC	ON TWP., IN-TE, SECTIONS 34,	TONS 34,	35, 36; 8/	36; SALEM TWP.,	18-7E, SECTIONS	DNS 1, 2, 12;	TRENTON-B	TRENTON-BLACK RIVER OIL	COMBINED	WITH NIAGARAN	_	-			-
	NORTHVILLE TWP.,	, 1S-8E, Si	NORTHWILLE TWP., 15-8E, SECTIONS 7, 16, 17; PLYMOUTH TWP., 15-8E, SECTIONS	OUTH TWP.	., 13-8E,	SECTIONS 2	22, 23, 25,	26 (Selina-Niagaran	agaren an	1 Trenton-	and Trenton-Black River)						1	-		_	-
HORTHVILLE	REFER TO TABLE	5 DEVELOPEI	REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS	89	CONVERTED	ED TO GAS	STORAGE AND	SECONDARY RECOVERY	RY JULY 2,	, 1968							_				-
ORIENT	REFER TO TABLE	5 DEVELOPE	REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS	ė)														_		_	4
OTISVILLE	GENESEE-TUSCOLA	1945	5 BEREA	1500	3 8	35.5	DUNDER	#L98	6	0	5						100	-	13		0
		1941	11 TRAVERSE	1895	2				н	ABANDONED	1946			PRODUCTI	PRODUCTION COMBINED WITH DUNDER	ATTH DUNDEE	AND BEREA				-
		13944	14 DUNDEE	2450	3 T	37.0			2	0	8		2,553	106,757			-	40 763	3	-	0
	FOREST TWP ON.	-SE. SECTION	POREST TWP. ON-8E. SECTIONS 5, 6, 12; MILLINGTON TWP., 10M-8E,	W TWP	low-8E, SE	SECTIONS 31	, 32 TRAVERSE PRODUCTION IN FOREST	NCTION IN		TWP., SECTION	ON 5										_

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	P001 CL	POOL CLASSIFICATION	ACTIVE	TOUG BO GISTS THE SA	POOL	Januar Jou	al danogaros			בֿן נ		2		うつつ	ווררח כחוווותפת			- 1					ſ
				DESCRIPTION OF THE PROPERTY OF	-	ADAIN	חסאבת סור		1 2	GAS FIELD UK FOUL	1 P UR 1	×	ABANDONED		GAS FIELD OR POOL H	GAS STORA(GAS STORAGE RESERVOIR	Φļ	UNDEVELOR	UNDEVELOPED GAS STORAGE RESERVOIR	TORAGE R	ESERVO	E
>	FIELD NAME	COUNTY YEAR TOWNSHIP OF	YEAR OF	FORMATION	DEPTH	FAY ZONE	SS OIL	<u> </u>		žβ	NUMBER OF O COMP. ABAND	OIL OF GAS	GAS WELLS	91	TION - BBLS.	GAS PRODUCTION	OTION - Mcf	. DRILLED	RECOVERY ED PER ACRE		BRINE PRODUCTION	NOIT	
-		PRODUCING SECTIONS	5 D1SC.	POOL	FEET	LITHOLOGY	GRAVITY 36Y A.P.1.	Y POOL TESTED	FEET	8	1961	1968	OR SHUT DOWN	1968	THROUGH 1968	1968	THROUGH 1968		S DRILLED (BBLS.)		DISPOSAL SUBSURFACE SURFACE	BBLS.	¥S.⊁
•	OTSEGO	ALLEGAN	1938	ERSE	1532	4	12	TRAVERSE	1600	9	ABANDONED 1962	w 1962			2,290			8	23				Τ
ζ	Officeron	TWP., IN-12W,	SECTION	TROWBRIDGE	WP., 11N-	3W, SEC.	TON 36				\dashv												
}		BAGIEV WE SOUTH SECTIONS OF THE SECTIONS OF THE SECTIONS OF THE SECTION OF THE SE	OF CHILDRE	8	1385	#	HS	DUNDEE	3944	0	0	.#	#			24,340	361,626	0#8 9#0					
•	OPSEGO, SEC. 9	ALLEGAN	1950	TRAVERSE	79.4		-	THE ATTENDED	-	-	-							1	1	_	-	+	
		Not Mr drift	TO CALLOS		2		-	TRAVERSE			ABANDONED	ID 1951			189			3	17		4	-	
•	Offic. SEC. 30	OCHANA	1.058	"agosa"	90,1	+		FIELD REACTIVATED	₹H	ă L	IN 1958								_		-	+	\neg
			+-		OS T		-	TRAVERDE	1380	CJ.	ABANDONED 1960	1360 1360				COMBINED	WITH OTTO SECTION	SCTION 32					
		CANTA TELEVISION OF COMMISSION	1955	TRAVERSE	1857	m			1	1	ABANDONED	D 1960				COMBINED	WITH OTTO SECTION	SCTION 32	-			-	
•		מיים דוליי דישור היום	OBCITONS	19,30	\downarrow		\perp		-		1												
	orio, sec. 32	OCEANA 13N_160 SEVENTON 20	1950	"BERBA"	1445	1 I	3	TRAVERSE	1895	0	0	г		120	4,308			10	430	٥	٥		0
•	OVERTSET.	ALLEGAN	9001	D.C.	1		+		-	-	+							4	-			_	T
			4330	TANAEROS	1	m	- 1	TRENTON	1000	164 0	٦	27	м	10,256	2,915,469			1770	1647	55	13		89
(OVERISEL TWP., 4N-14W, SECTIONS 5, 8, 9, 15,	W, SECTIC	NNS 5, 8, 9, 15, 16,	22,	27, 28,	34; HEATH	TWP., 3N-14W, SECTIONS	3, 4,	9, 10												-	
Ð	OVERISEL	REFER TO TABLE 5 DEVELOPED GAS STORAGE RESERVOIRS	ELOPED GA	AS STORAGE RESERVOIR	502													_			-	-	Т
•	OVERISEL, SEC. 11	ALLEGAN	1940	TRAVERSE	1553	17		TRAVERSE	1578	-	ABANDONED	D 1944			6.370			5	-		-	-	T
		OVERISEL TWP., 4N-14W, SECTION 11	W, SECTIO	11 NO						-								3	100				T
•	ОХВОМ	MASON	1958	TRAVERSE	1652	1 1	35 •4	TRAVERSE	1660	°	٦	6	-	2.137	83.666				+			\perp	T
		RIVERTON TWP., 17N-17W, SECTIONS 26,	TW, SECTI	TONS 26, 27							-	,			200			-	NA NA	6		-	20
\	PARADISE	GRAND TRAVERSE	1965	TRAVERSE	1889	8		DUNDER	1897	0	0	~	~					2				1	Т
		PARADISE TWP., 25N-10	OW, SECTIO	25N-10W, SECTIONS 9, 16						┼	\vdash)					-			-	1	T
\(\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	PARIS	MECOSTA	1951	MICHIGAN STRAY	1217	5 8		REED CITY	3545	0	0	-				000		+				1	T
•				TRAVERSE	2890		43.6			+-	\vdash	1 25		12.885	1.20t. oot	5,988	373,372	260	gene	1		+	T
Ø		н	1949	DUNDEE	3404	5 L				-	- NA]			1000000		3,000	+	+	255	*21	603	m
		GREEN TWP., 16N-10W, SECTIONS 16, 21,	SECTIONS	16, 21, 22, 27, 28						-							258,667	290			+	1	1
Ö	PARTELLO	CALHOUN	1.959	SALINA A-1 CARB.	3192	30		TRENTON-BLACK RIVER	ER 4,905	7	0	4	-			260 007	0,00	8	-		-	1	T
		LEE TWP., 18-5W, SECTI	SECTIONS 12, 13	13					-	+	i					(26-20)	20.61	+-				-	-
•	PAW PAW	VAN BUREN	1963 T	TRAVERSE	1096	17	4.1.4	TRAVERSE	1098	80	0	m	cu cu	727	19,761			160	200	*	'	_	1
1		PAW PAW TWP., 38-14W, SECTIONS 2, 10, 11,	SECTIONS	8 2, 10, 11, 15																-	1	1	-
9	PAW PAW, SEC. 33	VAN BUREN	1967	TRAVERSE	1028	1 1	38.0	TRAVERSE	1032	0	0	ď	H	0	0			g				-	Т
		PAW PAW TWE., 3S-1444, SECTION 33	SECTION	33																		1	T
_	PEACOCK	I.AKE 1.	1,966	TRAVERSE	2532	2	34.0	REED CITY	3047	12 10	0	12		51,806	53,936			084	112	164	*	46	
•		ä	1966 к	KEED CITY	3001	4				0		٦		1,270	2.330			3	8			+	Π,
		PEACOCK TWP., 19N-13W, SECTIONS 7, 9,	, SECTION	WS 7, 9, 17, 18														-	R		1	-	
•	PECKS LAKE	OSCEOLA	1.967 D	DUNDER	3866	2 F	<u>_</u>	REED CITY	3854	0	0	-	-	c	988			1	L		_	\downarrow	T
\exists		EVART TWP., 17N-8W, SEX	SECTION 18							+				,	6,000			9	72		_	\perp	\top
•	PENTWATER	OCEANA-MASON	1948	TRAVERSE	1585	9 1	† * 0†	PRAIRIE DU CHIEN	5383	143 0	٥	58	02					1				1	1
•		ä	1.94e	DUNDER	2088	1.0 D	-	1		+				39,764	6,557,596		1.010.713	1400	1000	2727	-	2728	
_												THE 58 W	ELLS INCL.	58 WELLS INCLUDE 26 TRAVERSE,		D 19 DUNDEE &			1767		_		_
\exists		WEARE TWP., 16N-17W, SECTIONS 4, 5, 6, 7, 8; PENTWATER TWP., 16N-18W, SECTIONS	SECTIONS	4, 5, 6, 7, 8; PENE	WATER TW	P., 16N-1	SW, SECTIO	NS 1, 2, 12; SUMMIT TWP., 17N-17W, SECTION	WP., 1734-1	TW, SECT.	TON 31;	NUMMETE TWP.,	17N-18W,	31; SUPPLIT TWP., 17N-18W, SECTIONS 26, 35, 36	35, 36						_	_	
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The continue of the continue	The control of the		P00L CLA	SSIFICATION	ACT	OIL FIELD	70	ABAND	ONED OIL	FIELD OR POOL C	1 ×	AS FIEL	OK POO	Ž	PANDONED	GAS FIELD	100	-	100	1		AN I GR	PRODITCT	NO.
The part Par	The back			Y	YEAR	PRODUCING			Ę			ž	R OF OIL	or GAS	_	DIL PRODUC	TION - BBLS.	GAS PRODUC	CHAIN ATIVE		D PER ACRE		JSAL	TOTAL
The column The	The column The	-	FIELD NAME	PRODUCTING SECTIONS D	OF DISC.	POOL POOL	DEPTH IN FEET	THICKNES AND AND LITHOLOG	S OIL GRAVITY Y A.P.I.		FEET	S S	1 9 6 8	AT END	SHUT DOWN	1968	THROUGH 1968	1968	THROUGH 1968	$\overline{}$	(BBLS.)		SURFAC	
The control of the	The content	•	PETERS		1955	SALINA-NIAGARAN	2366	14.7	39.0	\perp	2842	\vdash		825	10	254,577	3,890,346	1,290,223	12,092,611	+	-+-	582	0	282
Figure Control Contr	Part			4N-15E,	SECTION	22	23, 26,	27, E3 2	8, NEt 33,	垄										1				
The control of the	The control of the	•	PETERS, EAST		1961	SALINA-NIAGARAN	2590	17		_	2777		-	1	COMBINEDW	ITH PETERS						112	0	112
This continue 1942 1944	This column State			CASCO TWP., 4N-15E, 8	SECTION	WS 24, 25; CHINA TWP.,	4N-16E	, SECTION	19		-									-			-	_
The control of the	The sum of the control of the contro	•	PINCONNING		1958	TRAVERSE	2151	1	J.	DETROIT RIVER	3790	-	ABANDONED	1960			PRODUCTI	ON COMBINED WIT	H PINCONNING	DUNDEE	4		-	1
The process of the	Stronger Part, Nath, National, 2, 3, 5, 10 may 100 1, 10	•		- 1	1944	DUNDEE	2898	-	_			-	\perp	2	г	4,763	855,958			8		0	-	-
The continue Control	The column				N-4E, SI	35, 36;	RASER T	WP., 16N-												-	+			
The tent was been decided by the tent was b	The control of the	•	PINE		1938	TRAVERSE	2836	ч	_	_	3308	CJ	ABANDONED	1963			105,506			R	+			-
The parameter Continue Cont	The Company Control			12N-8W,	SECTION	29																		1
The control 1	The control 1 1 1 1 1 1 1 1 1	•	PINE RIVER		1956	TRAVERSE	2890	2	13	DUNDEE	3285	_	ABANDONED	1958			760			OF	-		-	-
Figure Procession Process	The control	•			1,942	DUNDEE	3280	Q	1			C)	ABANDONED	1956			13,285			8	_		4	1
Figure F	The control			PINE RIVER TWP., 12N	W-3W, Si		12K	TOES 'MT-1			_									-			_	
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Figure F	Figure F	ζ	OHOMOTO			TRAVERSE	3025	3	12	DUNDEE	3583	-		н	ч							t-1n)		
THE PROPERTY CONTRINENT CONTRIBUTION OF THE PROPERTY OF THE PROPERTY CONTRIBUTION OF THE PROPERTY CONTR	Tright Control 150 State	}	FLONBER	PIONEER TWP., 24N-7W	W. SECT.	ION 24					-	┼─												_
Particular Par	Figure 1970	1	Charles of the Charle	wat adda	1060	TES AVERSIE	822	٥		L	1353	-	ABANDONED				85			50				_
Particular Company C	Particular Communication		FIFETONE	1 8	17W. SB	CTION 24		,	+-	+		\vdash												
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Figure F	Figure 1985		FOLKATOR	SALL MAN MORN TOO	TORS AT	= =	15. 16		-	-	-	1												
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Figure 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Figure 11 Table 11 Fig. 1 100 10		PORTER		1933			+	+	\perp				THE 132	WELLS INC	MUG 128 DUN	DEE. 1 TRAVERS	DUNDER	& TRAVERSE					
FORTINGE TREE, 131-15, SECTION 1911 11 11 11 11 11 11 11 11 11 11 11 1	Final Control of Con					6	ا ا	9	_ 8	76 00 00	TASPER T	- A	W. SECTIO	WS 1. 2. 3	11. 12:		"P., 14N-2W, S.	34, 35						
FINAL PROPERTIES NOT CONTRIBUTION FOR A CONTRIBUTION OF A CONTRIBU	Figure 1987 Figure 1987 Figure 1988 Figure 1989			PORTER TWF., 13M-IW	w, Secre	7, 10, 1t,	, or , c	, 1	<u>`</u>	Calmbran.	α loca	5	AHANDONED	1991			0							
Part Control Part	Fig. 1987 Fig.	P	PORT HURON	_	1886	DUNDER	5	+	4	ANT VOLANO	ķ										_			
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Marian The Carrier Marian	MISSELLONG 1,946 MISSELl	Ç	PROSPER		1948	MICHIGAN STRAY	1269	و	2	RICHEIRE	1620			v						-	-		_	
Fine Street Maria Anticology 1946 19	Hander			22N-6W,	, SECTIK	- 1	N TWP.,	21N-6W,	SECTION 2	4		1	1							56	+-	\perp	-	+-
Handing Hand	1945 Section 1945	•	PROSPER		1942	DUNDEE	3837		_	_	5254	£1	0			12,223	1,705,407,1			780	+-	+-	_	+-
FIGURE NOTE: 2201-64, SECTIONS 66, 355 FIGURE NOTE: 2201-64, SECTIONS 66, 355 FIGURE NOTE: 2201-64, SECTIONS 66, 355 FULLAMAN MISSAIRES FULLAMAN MISSAIRES FULLAMAN SASTIONS 66, CLAN UNION PAP., 2111-64, SECTIONS 1, 2 FULLAMAN SASTIONS 66, CLAN UNION PAP., 2111-64, SECTIONS 1, 2 FULLAMAN SASTIONS 66, CLAN UNION PAP., 2111-64, SECTIONS 1, 2 FULLAMAN SASTIONS 66, CLAN UNION PAP., 2111-64, SECTIONS 1, 2 FULLAMAN SASTIONS 66, CLAN UNION PAP., 2111-64, SECTIONS 1, 2 FULLAMAN SASTIONS 66, CLAN UNION PAP., 2111-64, SECTIONS 66, CLAN UNION PAP., 2111-64, SECTION PAP., 2111-64, SECTIO	Figure 1967 Particle 1967	•			1954	RICHFIELD	5128		А		+	7	ABANDONE				7,08			₹	+		-	-
FULLMAN MISSAINGER 1967 PURIDER 1967 BUNDER 1969 A BANTONIED 1951 CASO TWP., 1281-64, SECTIONS 14, 128-14, SECTIONS 14, 128-14, SECTIONS 15, 128-14, SECTION	FROMENSA, SANTANNA MESSANEAN ALLEANORMY, MAILTON MESSANEAN ALLEANORMY, SANTANNA MESSANEAN ALLEANORMY, MAILTON					ons 26, 35	\perp		-		+	1	+			1				195	\bot	1	<u> </u>	╂-
FULLMAN ALIBORAN 1946 THANGRIGH SC. CLAN UNTON TAP., 22H-GW, SECTIONS 1, 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	FULLMAN ALLEGAM 56. CLAW WITTON TARP., 22H-G4, SECTIONS 51, CLAW WITTON TARP., 21H-G4, SECTIONS 51, CLAW WITTON TARP., 21H-G4, SECTIONS 51, CLAW WITTON TARP., 11H-15G, SECTION S1, CLAW WIT	•	PROSPER, SOUTH		1961	DUNDEE	3798	_	D	DUNDEE	3806	4	\dashv	4		74,141	80,111	_		Tor	+	_		+
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